

PERFORATED AND CAST
Newman Grilles



THE NEWMAN MANUFACTURING CO.
CINCINNATI **CHICAGO**

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NEWMANCO

"equal to the best"

METAL GRILLES

NEWMANCO METAL GRILLES are made with conscientious care by the foremost U. S. specialists in architectural brass and bronze work.

They are produced by 400 master craftsmen in the largest plant of its kind in the world, covering an area of A QUARTER OF A MILLION SQUARE FEET.

Since 1882—for nearly half a century—we have been serving the leading architects and contractors of our country. We point with pardonable pride to our reputation for fabricating cast and perforated grilles "equal to the best."

GUARANTEE

Everything we manufacture is backed by a copper-riveted guarantee. You must be perfectly satisfied in all respects with the quality and workmanship, or *we will make good.*

In other words, everything must be positively as represented!

WHEN ORDERING

Please make certain that you specify:

1. The kind of metal.
2. The over all size.
3. The design, by our number and by catalog page.
4. The finish.
5. Quantity of each kind and size.
6. Approximate border widths.
7. Gauge of metal.
8. Location and size of screw holes. Are holes to be near edges, or centered in margins? How far apart? We provide countersunk holes cen-

tered in margins, 16" apart and for No. 8 wood screws, unless otherwise specified.

9. Location and size of hand holes. Give distance from edge of the grille to center of the hand hole. Hand holes will be 6 x 6" and as near the margin as is practicable, unless otherwise specified.

STOCK DESIGNS

Cast grille designs as shown in this catalog are those for which we have the basic patterns in stock, unless otherwise mentioned. We may have the complete pattern for just exactly the style and size required. That is why we do not list prices for any of our grilles; the prices for our stock design grilles are consistently low, and even lower if we happen to have the complete pattern for a given size.

Perforated grille designs shown herein are those for which we have the dies in stock. These designs are made in all sizes and shapes, up to the usual maximum. (See page 2.)

We are constantly adding to our line of stock design NEWMANCO METAL GRILLES. By the time you receive this catalog we very probably can send you blueprints of others even better for your purpose, and this is especially true of the cast grilles.

SPECIAL DESIGNS

Any so-called stock designs as made by other companies, either cast or perforated, can be accurately reproduced and at strictly competitive prices.

We have a very large Engineering Department, and our draftsmen and estimators will gladly submit special sketches and estimates of cost upon request. This service is free of charge and obligation to owners, architects, contractors, and jobbers.

The Newman Manufacturing Co.

Main Office and Plant --- Cincinnati, Ohio

Branches:

Chicago, St. Louis
and New York

Represented

in 77 U. S. Cities
and Towns



NEWMANCO Perforated Grilles

NEWMANCO PERFORATED METAL GRILLES are the first choice of architects who plan with an eye to economy. Less expensive than cast grilles, they lend themselves readily to any and all architectural schemes, and have the added advantage of being stamped in one piece from sheets of metal sufficiently strong for any given purpose.

Our perforated grilles are designed to stand the strains of handling and use better than cast iron grilles, vents and register faces. The latter are known to be brittle and inclined toward weakness between the openings. Our grilles, on the contrary, need not be treated with the same care as cast iron grilles, and can be easily and quickly installed, while their upkeep is a negligible factor.

METALS USED

We make our perforated grilles of bronze, brass, steel, copper, nickel, zinc, Monel metal, aluminum and special alloy sheets.

They are cold-rolled perfectly flat after perforating, and are especially smoothed and treated to take any selected painted or electro-plated finish, such as Duco, chromium, etc., etc.

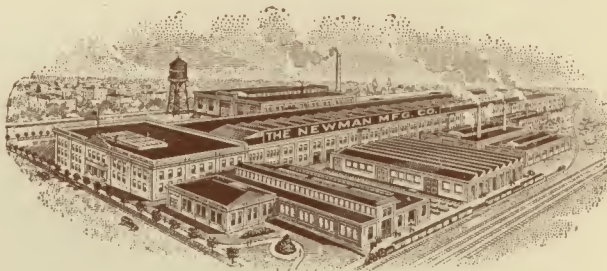
Grilles measuring up to 60 x 156 inches are customarily made in one piece. Larger sizes are made in two or more pieces, and are carefully joined with the necessary butt straps, so that the joints are not noticeable from the front. Or, if preferred, the sections may be welded or brazed together, making the grille one solid piece of metal.

FINISHES

Steel grilles are stamped from first quality full pickled, full cold rolled, high finish sheets, which, because of their smooth surface can be painted, japanned, sprayed or dipped, or electro-plated.

Our other perforated grilles are stamped from highest grade sheets of bronze, brass, etc., of an extra high burnish to take electro-plating. We will finish such grilles in your choice of the following: Lacquered polished brass, brush brass, statuary bronze, oxidized, gun metal, verde antique, nickel plate, German silver, chromium. In fact, we can match any finish you may have in mind.

Note: In the case of painted steel grilles, we recommend that they be shipped with one prime or shop coat applied, and that the finishing coats be applied on the job.



DESIGNS TO ORDER

The following pages illustrate the majority of our stock designs. There is a style herein for every ordinary purpose. No attempt has been made to design period styles, or those which may enjoy only a passing vogue. All of our designs have been selected as likely to render the utmost in service, and to permit maximum passage of heat or cold air.

However, we realize that special designs are quite frequently required, such as the "modernistic," in favor at the time this catalog is being published. There are no limits to our facilities in this direction. No perforated grille is too large or too elaborate for us to make, and no other manufacturer is better able to make new dies and quote competitive prices for special grilles.

You can save on any job if you use Newmanco stock designs. But we shall be glad to submit special estimates and sketches, upon receipt of specifications, with the understanding that there are no obligations involved.

PLEASE NOTE

For our steel grilles we regularly use Nos. 16, 14, 12 and 10 Birmingham gauge metal. For our non-ferreous grilles we regularly use Nos. 8 to 14 B. & S. gauge metals. Lighter gauges are not practicable, especially in the larger sizes. Heavier grilles should be cast, as a general rule, unless very plain.

Recommended gauges for grilles are as follows: Under 6 square feet, No. 14 B. & S. gauge. 6 to 12 square feet, No. 12 B. & S. gauge. Over 12 square feet, No. 10 to No. 8 B. & S. gauge. Of course heavier gauges may be utilized whenever desirable.

Vent grilles may be had with shutters as used on registers. Grilles may be provided with angle iron frames screwed thereto. Also we can furnish lugs, anchors and similar devices and special features.

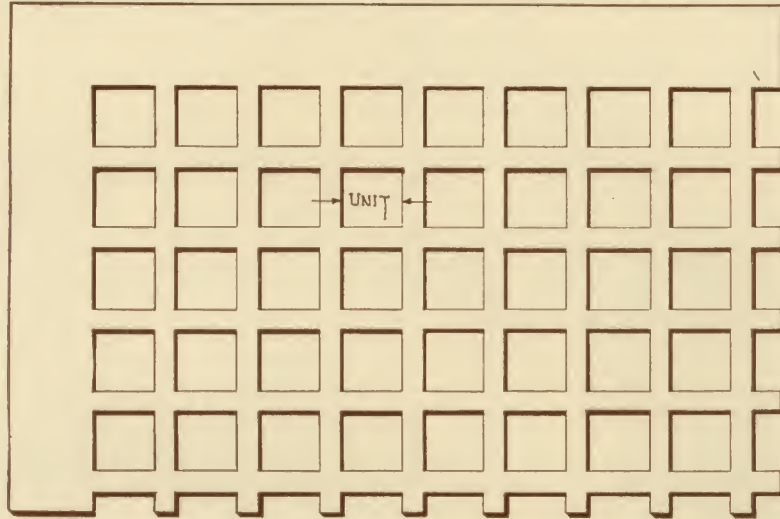
See page 1 for data required by us for estimating purposes.

IT IS ABSOLUTELY ESSENTIAL THAT WE QUOTE SPECIAL PRICES UPON REQUEST, WHETHER FOR STOCK OR STANDARD DESIGNS, OR FOR GRILLES SPECIAL IN ALL RESPECTS.

BULKHEAD GRILLES

Bulkhead grilles for storefront construction are especially low in cost if the following opening (over all) sizes, for which we have the complete dies or patterns, are specified, and especially since we carry these numbers in stock "in the rough" and ready to finish up at short notice: No. 674, Perforated. 9 x 24"; 12 3/4 x 28 3/4". No. 620, Perforated. 10 3/4 x 28"; 11 1/4 x 37 1/8". No. 400, Cast. 10 3/4 x 28"; 11 1/4 x 37 1/8".

NEWMANCO Perforated Grilles



No. 670

No. 670— $\frac{1}{2}$ " units, $\frac{1}{4}$ " bars
 No. 671— $\frac{3}{8}$ " units, $\frac{1}{4}$ " bars
 No. 672— $\frac{3}{4}$ " units, $\frac{1}{4}$ " bars
 No. 673— $\frac{7}{8}$ " units, $\frac{1}{4}$ " bars
 No. 674—1" units, $\frac{1}{4}$ " bars
 No. 675—1 $\frac{3}{8}$ " units, $\frac{1}{4}$ " bars

Plain lattice design, always perfectly satisfactory for any sort of installation, regardless of the architectural scheme. A design that makes a strong appeal to heating and ventilating engineers because of its very high percentage of open area, as follows:

No. 670 45% open
 No. 672 57% open
 No. 674 64% open

The schedule of opening sizes below gives the inside border dimension *A*, as indicated on the small diagram at the bottom. To arrive at the over all size, add twice the width of the margin (or border) desired.

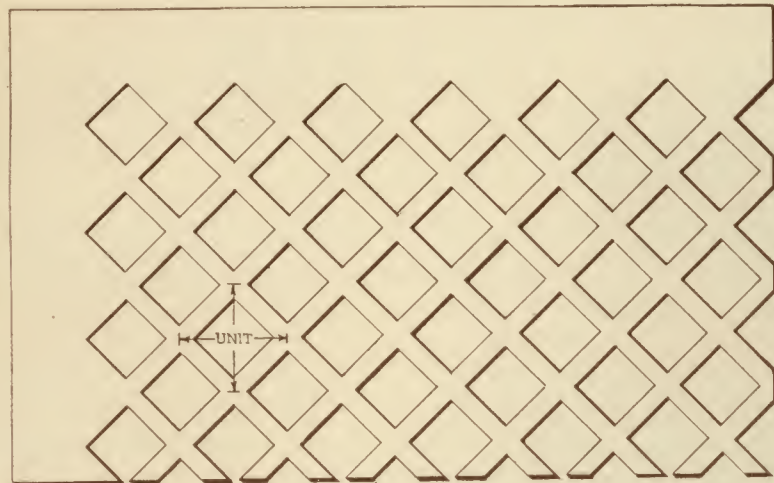
UNITS	UNIT SIZE					
	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"
	A	A	A	A	A	A
1	1 1/2	5/8	3/4	7/8	1	1 1/8
2	1 1/4	1 1/2	1 3/4	2	2 1/4	3
3	2	2 3/8	2 3/4	3 1/2	3 1/2	4 1/2
4	2 3/4	3 1/2	3 3/4	4 1/4	4 3/4	6 1/4
5	3 1/2	4 1/8	4 3/4	5 1/4	6	7 7/8
6	4 1/4	5	5 3/4	6 1/2	7 1/4	9 1/2
7	5	5 7/8	6 3/4	7 1/2	8 1/2	11 1/4
8	5 3/4	6 1/4	7 3/4	8 3/4	9 3/4	13 1/4
9	6 1/2	7 1/8	8 3/4	9 7/8	11	15 1/2
10	7 1/4	8 1/2	9 3/4	11	12 1/4	17
11	8	9 3/8	10 3/4	12 1/2	13 1/2	18 1/2
12	8 3/4	10 1/4	11 3/4	13 1/4	14 3/4	20 1/4
13	9 1/2	11 1/2	12 3/4	14 1/2	16	21 1/2
14	10 1/4	12	13 1/2	15 1/2	17 1/2	22 1/2
15	11	12 3/8	14 1/4	16 1/2	18 1/2	24 1/4
16	11 3/4	13 1/4	15 3/4	17 3/4	19 1/2	25 3/4
17	12 1/2	14	16 3/4	18 1/2	21	27 1/2
18	13 1/4	15 1/2	17 3/4	20	22 1/2	29
19	14	16 3/8	18 3/4	21 1/2	23 1/2	30 5/8
20	14 3/4	17 1/4	19 3/4	22 1/4	24 3/4	32 1/4
21	15 1/2	18 1/2	20 3/4	23 1/2	26	33 1/2
22	16 1/4	19	21 3/4	24 1/2	27 1/2	35 1/2
23	17	19 3/8	22 3/4	25 1/2	28 1/2	37 1/2
24	17 3/4	20 3/4	23 3/4	26 3/4	29 3/4	38 3/4
25	18 1/2	21 1/2	24 3/4	27 1/2	31	40 3/8
26	19 1/4	22 1/4	25 3/4	29	32 1/4	42
27	20	23 1/8	26 3/4	30	33 1/2	43 1/2
28	20 3/4	24 1/4	27 3/4	31 3/4	34 3/4	45 1/4
29	21 1/2	25 1/2	28 3/4	32 3/4	36	46 1/2
30	22 1/4	26	29 3/4	33 1/2	37 1/4	48 1/2
31	23	26 3/8	30 3/4	34 3/8	38 1/2	50 1/2
32	23 3/4	27 3/4	31 3/4	35 3/4	39 3/4	51 3/4
33	24 1/2	28 1/2	32 3/4	36 1/2	41	53 1/2
34	25 1/4	29 1/4	33 3/4	38	42 1/2	55 1/2

UNITS	UNIT SIZE					
	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"
	A	A	A	A	A	A
35	26	30 3/8	34 3/4	39 1/2	43 1/2	56 1/2
36	26 3/4	31 1/4	35 3/4	40 3/4	44 3/4	58 1/4
37	27 1/2	32 1/2	36 3/4	41 3/4	46	59 7/8
38	28 1/4	33	37 3/4	42 3/4	47 1/4	61 1/2
39	29	33 3/8	38 3/4	43 3/8	48 1/2	63 1/2
40	29 3/4	34 3/4	39 3/4	44 3/4	49 3/4	64 3/4
41	30 1/2	35 3/8	40 3/4	45 3/8	51	65 3/4
42	31 1/4	36 1/2	41 3/4	47	52 1/4	68
43	32	37 3/8	42 3/4	48 3/8	53 1/2	69 3/8
44	32 3/4	38 1/4	43 3/4	49 1/4	54 3/4	71 1/4
45	33 1/2	39 1/2	44 3/4	50 1/2	56	72 7/8
46	34 1/4	40	45 3/4	51 1/2	57 1/4	74 1/2
47	35	40 3/8	46 3/4	52 3/8	58 1/2	76 1/8
48	35 3/4	41 3/4	47 3/4	53 3/4	59 3/4	77 3/4
49	36 1/2	42 3/8	48 3/4	54 7/8	61	79 3/8
50	37 1/4	43 1/4	49 3/4	55	62 3/4	81
51	38	44 3/8	50 3/4	57 1/2	63 1/2	82 1/2
52	38 3/4	45 1/4	51 3/4	58 1/4	64 1/4	84 1/4
53	39 1/2	46 1/8	52 3/4	59 1/8	65	85 7/8
54	40 1/4	47	53 3/4	60 1/2	67 1/2	87 1/2
55	41	47 3/8	54 3/4	61 3/8	68 3/4	89 1/2
56	41 3/4	48 3/8	55 3/4	62 3/4	69 3/4	90 3/4
57	42 1/2	49 3/8	56 3/4	63 7/8	71	92 3/8
58	43 1/4	50 1/2	57 3/4	65	72 1/4	94
59	44	51 1/8	58 3/4	66 1/2	73 1/2	95 1/2
60	44 3/4	52 1/4	59 3/4	67 1/4	74 3/4	97 1/4
61	45 1/2	53 1/8	60 3/4	68 3/8	76	98 7/8
62	46 1/4	54	61 3/4	69 1/2	77 1/4	100 1/2
63	47	54 3/8	62 3/4	70 3/8	78 1/2	102 1/2
64	47 3/4	55 3/8	63 3/4	71 3/4	79 3/4	103 3/4
65	48 1/2	56 3/8	64 3/4	72 7/8	81	105 1/2
66	49 1/4	57 1/2	65 3/4	74	82 1/2	107
67	50	58 1/2	66 3/4	75 1/2	83 1/2	108 1/2
68	50 3/4	59 1/4	67 3/4	76 1/4	84 3/4	110 1/4

UNITS	UNIT SIZE					
	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"
	A	A	A	A	A	A
69	51 1/2	60 1/2	68 3/4	77 3/4	86	111 7/8
70	52 1/4	61	69 3/4	78 1/2	87 1/4	113 1/2
71	53	61 1/2	70 3/4	79 3/8	88 1/2	115 1/2
72	53 3/4	62 3/4	71 3/4	80 3/4	89 3/4	116 3/4
73	54 1/2	63 1/2	72 3/4	81 1/2	91	118 3/8
74	55 1/4	64 1/4	73 3/4	83	93 1/2	120
75	56	65 1/8	74 3/4	84 1/4	94 1/2	121 1/2
76	56 3/4	66 1/4	75 3/4	85 1/4	95 3/4	123 1/4
77	57 1/2	67 1/2	76 3/4	86 3/8	97	124 7/8
78	58 1/4	68	77 3/4	87 1/2	98 1/2	126 1/2
79	59	68 1/8	78 3/4	88 3/8	99 1/2	128 1/2
80	59 3/4	69 3/4	79 3/4	89 3/4	100 3/4	130 3/4
81	60 1/2	70 1/2	80 3/4	90 7/8	102	131 1/2
82	61 1/4	71 1/4	81 3/4	92	103 1/4	133
83	62	72 1/2	82 3/4	93 1/2	104 1/2	134 1/2
84	62 3/4	73 1/4	83 3/4	94 1/4	105 3/4	136 1/4
85	63 1/2	74 1/2	84 3/4	95 1/2	107	137 1/2
86	64 1/4	75	85 3/4	96 1/2	108 1/2	139 1/2
87	65	75 1/8	86 3/4	97 1/8	109 1/2	141 1/2
88	65 3/4	76 3/4	87 3/4	98 3/8	110 3/4	142 3/4
89	66 1/2	77 1/2	88 3/4	99 1/2	112	144 1/2
90	67 1/4	78 1/4	89 3/4	101	113 1/4	146
91	68	79 1/8	90 3/4	102 1/2	114 1/2	147 1/2
92	68 3/4	80 1/4	91 3/4	103 1/4	115 3/4	149 1/4
93	69 1/2	81 1/2	92 3/4	104 1/2	117	150 1/2
94	70 1/4	82	93 3/4	105 1/2	118 1/2	
95	71	82 1/8	94 3/4	106 1/2	119 1/2	
96	71 3/4	83 1/4	95 3/4	107 1/4	120 3/4	
97	72 1/2	84 1/2	96 3/4	108 1/2	122	
98	73 1/4	85 1/4	97 3/4	110	123 1/4	
99	74	86 1/8	98 3/4	111 1/2	124 1/2	
100	74 3/4	87 1/4	99 3/4	112 1/2	125 3/4	
101	75 1/2	88 1/2	100 3/4	113 1/2	127	
102	76 1/4	89	101 3/4	114 1/2	128 1/4	

UNITS	UNIT SIZE					
	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"
	A	A	A	A	A	A
103	77	89 7/8	102 3/4	115 3/4	129 1/2	
104	77 3/4	90 3/4	103 3/4	116 3/4	130 3/4	
105	78 1/2	91 1/2	104 3/4	117 1/2	132	
106	79 1/4	92 1/2	105 3/4	119	133 1/4	
107	80	93 1/2	106 3/4	120 1/2	134 1/2	
108	80 3/4	94 1/4	107 3/4	121 1/4	135 3/4	
109	81 1/2	95 1/2	108 3/4	122 1/2	137	
110	82 1/4	96 1/4	109 3/4	123 1/4	138 1/4	
111	83	96 3/8	110 3/4	124 1/8	139 1/2	
112	83 3/4	97 3/4	111 3/4	125 3/4	140 3/4	
113	84 1/2	98 1/2	112 3/4	126 1/2	142	
114	85 1/4	99 1/4	113 3/4	128	143 1/4	
115	86	100 1/2	114 3/4	129 1/2	144 1/2	
116	86 3/4	101 1/4	115 3/4	130 1/4	145 3/4	
117	87 1/2	102 1/2	116 3/4	131 1/2	147	
118	88 1/4	103	117 3/4	132 1/4	149 1/4	
119	89	103 1/2	118 3/4	133 1/2	150 1/2	
120	89 3/4	104 1/4	119 3/4	134 1/4		
121	90 1/2	105 1/2	120 3/4	135 1/2		
122	91 1/4	106 1/4	121 3/4	137		
123	92	107 1/2	122 3/4	138 1/2		
124	92 3/4	108 1/4	123 3/4	139 1/4		
125	93 1/2	109	124 3/4	140 3/4		
126	94 1/4	110	125 3/4	141 1/2		
127	95	110 1/2	126 3/4	142 1/2		
128	95 3/4	111 1/4	127 3/4	143 1/4		
129	96 1/2	112 1/2	128 3/4	144 1/2		
130	97 1/4	113 1/4	129 3/4	146		
131	98	114 1/8	130 3/4	147 1/2		
132	98 3/4	115 1/4	131 3/4	148 1/4		
133	99 1/2	116 1/2	132 3/4	149 3/4		
134	100 1/4	117	133 3/4	150 1/2		
135	101	117 1/2	134 3/4			

NEWMANCO Perforated Grilles



No. 417

No. 417— $\frac{1}{2}$ " perforations, $\frac{1}{4}$ " bars
 No. 418— $\frac{3}{8}$ " perforations, $\frac{1}{4}$ " bars
 No. 419— $\frac{3}{4}$ " perforations, $\frac{1}{4}$ " bars
 No. 420— $\frac{7}{8}$ " perforations, $\frac{1}{4}$ " bars
 No. 421—1" perforations, $\frac{1}{4}$ " bars
 No. 422—1 $\frac{3}{8}$ " perforations, $\frac{1}{4}$ " bars

The diagonal lattice design is neat and unobtrusive, making it excellent for almost any job imaginable. Next to our No. 670 series, this is best in the opinion of heating and ventilating experts, for it has a high percentage of open space, as indicated below:

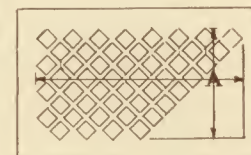
No. 419.....57% open
 No. 420.....60% open
 No. 421.....64% open

The schedule of opening sizes below gives the inside border dimension *A*, as indicated on the small diagram at the bottom. To arrive at the over all size, add twice the width of the margin (or border) desired.

UNITS	UNIT SIZE					
	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	1 $\frac{1}{8}$ "
	A	A	A	A	A	A
1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$
2	2 $\frac{1}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3 $\frac{1}{4}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$
3	3 $\frac{1}{8}$	3 $\frac{1}{4}$	4 $\frac{1}{8}$	5 $\frac{1}{4}$	6 $\frac{1}{4}$	6 $\frac{1}{4}$
4	4 $\frac{1}{8}$	5	5 $\frac{3}{4}$	6 $\frac{1}{2}$	7	9
5	5 $\frac{1}{8}$	6 $\frac{1}{4}$	7 $\frac{1}{8}$	8 $\frac{3}{4}$	11 $\frac{1}{4}$	11 $\frac{1}{4}$
6	6 $\frac{1}{8}$	7 $\frac{1}{4}$	8 $\frac{5}{8}$	10 $\frac{1}{2}$	13 $\frac{1}{2}$	13 $\frac{1}{2}$
7	7 $\frac{1}{8}$	8 $\frac{3}{4}$	10	10 $\frac{1}{2}$	12 $\frac{1}{4}$	15 $\frac{1}{4}$
8	8 $\frac{1}{2}$	10	11 $\frac{1}{2}$	12 $\frac{1}{2}$	14	18
9	9 $\frac{1}{8}$	11 $\frac{1}{4}$	12 $\frac{1}{4}$	14 $\frac{1}{2}$	15 $\frac{3}{4}$	20 $\frac{1}{4}$
10	10 $\frac{1}{8}$	12 $\frac{1}{4}$	14 $\frac{3}{8}$	15 $\frac{5}{8}$	17 $\frac{1}{2}$	22 $\frac{1}{2}$
11	11 $\frac{1}{8}$	13 $\frac{1}{4}$	15 $\frac{1}{2}$	17 $\frac{1}{2}$	19 $\frac{1}{4}$	24 $\frac{3}{4}$
12	12 $\frac{1}{8}$	14	16 $\frac{1}{4}$	18 $\frac{3}{4}$	21	27
13	13 $\frac{1}{8}$	15 $\frac{1}{4}$	17 $\frac{1}{2}$	20 $\frac{1}{2}$	22 $\frac{3}{4}$	29 $\frac{1}{4}$
14	14 $\frac{1}{8}$	16 $\frac{1}{2}$	18 $\frac{3}{4}$	21 $\frac{3}{4}$	24 $\frac{1}{2}$	31 $\frac{1}{2}$
15	15 $\frac{1}{8}$	17 $\frac{1}{4}$	20 $\frac{1}{2}$	22 $\frac{3}{4}$	26 $\frac{1}{4}$	33 $\frac{3}{4}$
16	16	18 $\frac{1}{2}$	21 $\frac{3}{4}$	23 $\frac{1}{2}$	26 $\frac{3}{4}$	33 $\frac{3}{4}$
17	17	20	23	25	23	36
18	18 $\frac{1}{8}$	21 $\frac{1}{4}$	24 $\frac{1}{2}$	26	29 $\frac{3}{4}$	38 $\frac{1}{4}$
19	19 $\frac{1}{8}$	22 $\frac{1}{4}$	25 $\frac{1}{2}$	28 $\frac{1}{2}$	31 $\frac{1}{2}$	40 $\frac{1}{2}$
20	20 $\frac{1}{8}$	23 $\frac{1}{4}$	27 $\frac{1}{2}$	29 $\frac{1}{2}$	33 $\frac{1}{4}$	42 $\frac{3}{4}$
21	21 $\frac{1}{8}$	24	28 $\frac{3}{4}$	31 $\frac{1}{4}$	35	45
22	22 $\frac{1}{8}$	25 $\frac{1}{4}$	30	32 $\frac{1}{2}$	36 $\frac{3}{4}$	47 $\frac{1}{2}$
23	23 $\frac{1}{8}$	26 $\frac{1}{4}$	31 $\frac{1}{2}$	33 $\frac{3}{4}$	38 $\frac{1}{2}$	49 $\frac{1}{2}$
24	24 $\frac{1}{8}$	27 $\frac{1}{4}$	32 $\frac{1}{2}$	34 $\frac{3}{4}$	40 $\frac{1}{4}$	51 $\frac{3}{4}$
25	25 $\frac{1}{8}$	28 $\frac{1}{4}$	33 $\frac{1}{2}$	35 $\frac{1}{2}$	40 $\frac{1}{2}$	54
26	26 $\frac{1}{8}$	29 $\frac{1}{4}$	34 $\frac{1}{2}$	36 $\frac{1}{2}$	42	54
27	27 $\frac{1}{8}$	30 $\frac{1}{4}$	35 $\frac{1}{2}$	37 $\frac{1}{2}$	42	54
28	28 $\frac{1}{8}$	31 $\frac{1}{4}$	36 $\frac{1}{2}$	38 $\frac{1}{2}$	43 $\frac{3}{4}$	56 $\frac{1}{4}$
29	29 $\frac{1}{8}$	32 $\frac{1}{4}$	37 $\frac{1}{2}$	39	45 $\frac{1}{2}$	58 $\frac{1}{2}$
30	30 $\frac{1}{8}$	33 $\frac{1}{4}$	38 $\frac{1}{2}$	40 $\frac{1}{2}$	47 $\frac{1}{4}$	60 $\frac{3}{4}$
31	31 $\frac{1}{8}$	34 $\frac{1}{4}$	39 $\frac{1}{2}$	41 $\frac{1}{2}$	49	63
32	32 $\frac{1}{8}$	35 $\frac{1}{4}$	40 $\frac{1}{2}$	42 $\frac{1}{2}$	51	65 $\frac{1}{2}$
33	33 $\frac{1}{8}$	36 $\frac{1}{4}$	41 $\frac{1}{2}$	43 $\frac{1}{2}$	53	67 $\frac{1}{2}$
34	34 $\frac{1}{8}$	37 $\frac{1}{4}$	42 $\frac{1}{2}$	44 $\frac{1}{2}$	55	69 $\frac{1}{2}$

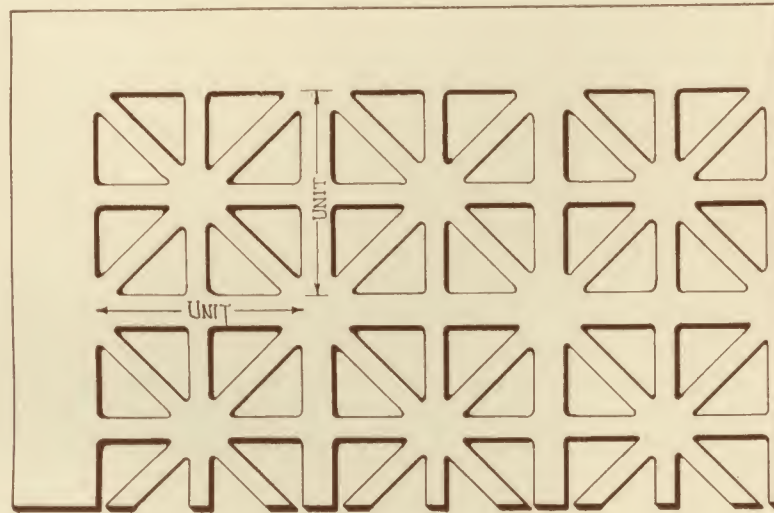
UNITS	UNIT SIZE					
	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	1 $\frac{1}{8}$ "
	A	A	A	A	A	A
35	37 $\frac{1}{8}$	43 $\frac{3}{4}$	50 $\frac{1}{2}$	54 $\frac{1}{4}$	61 $\frac{1}{4}$	78 $\frac{3}{4}$
36	38 $\frac{1}{4}$	45	51 $\frac{3}{4}$	56 $\frac{1}{4}$	63	81
37	39 $\frac{1}{8}$	46 $\frac{1}{4}$	53 $\frac{1}{2}$	57 $\frac{1}{2}$	64 $\frac{3}{4}$	83 $\frac{1}{4}$
38	40 $\frac{1}{4}$	47 $\frac{1}{2}$	54 $\frac{1}{2}$	59 $\frac{1}{2}$	66 $\frac{1}{2}$	85 $\frac{1}{2}$
39	41 $\frac{1}{8}$	48 $\frac{1}{4}$	56 $\frac{1}{2}$	60 $\frac{1}{2}$	68 $\frac{1}{4}$	87 $\frac{3}{4}$
40	42 $\frac{1}{2}$	50	57 $\frac{1}{2}$	62 $\frac{1}{2}$	70	90
41	43 $\frac{1}{8}$	51 $\frac{1}{4}$	58 $\frac{1}{2}$	64	71 $\frac{3}{4}$	92 $\frac{1}{4}$
42	44 $\frac{1}{4}$	52 $\frac{1}{2}$	60 $\frac{1}{2}$	65 $\frac{1}{2}$	73 $\frac{1}{2}$	94 $\frac{1}{2}$
43	45 $\frac{1}{8}$	53 $\frac{1}{4}$	61 $\frac{1}{2}$	67 $\frac{1}{2}$	75 $\frac{1}{4}$	96 $\frac{3}{4}$
44	46 $\frac{1}{4}$	55	63 $\frac{1}{4}$	68 $\frac{3}{4}$	77	99
45	47 $\frac{1}{8}$	56 $\frac{1}{4}$	64 $\frac{1}{2}$	70 $\frac{1}{2}$	78 $\frac{3}{4}$	101 $\frac{1}{4}$
46	48 $\frac{1}{4}$	57 $\frac{1}{2}$	66 $\frac{1}{2}$	71 $\frac{1}{2}$	80 $\frac{1}{2}$	103 $\frac{1}{2}$
47	49 $\frac{1}{8}$	58 $\frac{3}{4}$	67 $\frac{1}{2}$	73 $\frac{1}{2}$	82 $\frac{3}{4}$	105 $\frac{3}{4}$
48	51	60	69	75	84	108
49	52 $\frac{1}{8}$	61 $\frac{1}{4}$	70 $\frac{1}{2}$	76 $\frac{1}{2}$	85 $\frac{3}{4}$	110 $\frac{1}{4}$
50	53 $\frac{1}{4}$	62 $\frac{1}{2}$	71 $\frac{1}{2}$	78 $\frac{1}{2}$	87 $\frac{1}{2}$	112 $\frac{1}{2}$
51	54 $\frac{1}{8}$	63 $\frac{1}{4}$	73 $\frac{1}{2}$	79 $\frac{1}{2}$	89 $\frac{1}{4}$	114 $\frac{3}{4}$
52	55 $\frac{1}{4}$	65	74 $\frac{3}{4}$	81 $\frac{1}{4}$	91	117
53	56 $\frac{1}{8}$	66 $\frac{1}{4}$	76 $\frac{1}{2}$	82 $\frac{1}{2}$	92 $\frac{1}{2}$	119 $\frac{1}{4}$
54	57 $\frac{1}{4}$	67 $\frac{1}{2}$	77 $\frac{1}{2}$	84 $\frac{1}{2}$	94 $\frac{1}{2}$	121 $\frac{1}{2}$
55	58 $\frac{1}{8}$	68 $\frac{3}{4}$	79 $\frac{1}{2}$	85 $\frac{1}{2}$	96 $\frac{1}{4}$	123 $\frac{3}{4}$
56	59 $\frac{1}{4}$	70	80 $\frac{1}{2}$	87 $\frac{1}{2}$	98	125
57	60 $\frac{1}{8}$	71 $\frac{1}{4}$	81 $\frac{1}{2}$	89 $\frac{1}{2}$	99 $\frac{3}{4}$	128 $\frac{1}{4}$
58	61 $\frac{1}{4}$	72 $\frac{1}{2}$	83 $\frac{1}{2}$	90 $\frac{1}{2}$	101 $\frac{1}{2}$	130 $\frac{1}{2}$
59	62 $\frac{1}{8}$	73 $\frac{1}{4}$	84 $\frac{1}{2}$	92 $\frac{1}{4}$	103 $\frac{1}{4}$	132 $\frac{3}{4}$
60	63 $\frac{1}{4}$	75	86 $\frac{1}{4}$	93 $\frac{1}{4}$	105	135
61	64 $\frac{1}{8}$	76 $\frac{1}{4}$	87 $\frac{1}{2}$	95 $\frac{1}{2}$	106 $\frac{3}{4}$	137 $\frac{1}{4}$
62	65 $\frac{1}{4}$	77 $\frac{1}{2}$	89 $\frac{1}{2}$	96 $\frac{1}{2}$	108 $\frac{1}{2}$	139 $\frac{1}{2}$
63	66 $\frac{1}{8}$	78 $\frac{3}{4}$	90 $\frac{1}{2}$	98 $\frac{1}{2}$	110 $\frac{1}{4}$	141 $\frac{3}{4}$
64	68	80	92	100	112	144
65	69 $\frac{1}{8}$	81 $\frac{1}{4}$	93 $\frac{1}{2}$	101 $\frac{1}{2}$	113 $\frac{3}{4}$	146 $\frac{1}{4}$
66	70 $\frac{1}{4}$	82 $\frac{1}{2}$	94 $\frac{1}{2}$	103 $\frac{1}{2}$	115 $\frac{1}{2}$	148 $\frac{1}{2}$
67	71 $\frac{1}{8}$	83 $\frac{3}{4}$	96 $\frac{1}{2}$	104 $\frac{1}{2}$	117 $\frac{1}{4}$	150 $\frac{3}{4}$
68	72 $\frac{1}{4}$	85	97 $\frac{3}{4}$	106 $\frac{1}{4}$	119	

UNITS	UNIT SIZE					
	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	1 $\frac{1}{8}$ "
	A	A	A	A	A	A
69	73 $\frac{1}{8}$	86 $\frac{1}{4}$	99 $\frac{1}{8}$	107 $\frac{1}{2}$	120 $\frac{1}{4}$	120 $\frac{1}{4}$
70	74 $\frac{1}{4}$	87 $\frac{1}{2}$	100 $\frac{1}{2}$	109 $\frac{1}{2}$	122 $\frac{1}{2}$	122 $\frac{1}{2}$
71	75 $\frac{1}{8}$	88 $\frac{3}{4}$	102 $\frac{1}{2}$	110 $\frac{1}{2}$	124 $\frac{1}{4}$	124 $\frac{1}{4}$
72	76 $\frac{1}{2}$	90	103 $\frac{1}{2}$	112 $\frac{1}{2}$	126	126
73	77 $\frac{1}{8}$	91 $\frac{1}{4}$	104 $\frac{1}{2}$	114 $\frac{1}{2}$	127 $\frac{3}{4}$	127 $\frac{3}{4}$
74	78 $\frac{1}{4}$	92 $\frac{1}{2}$	106 $\frac{1}{2}$	115 $\frac{1}{2}$	129 $\frac{1}{2}$	129 $\frac{1}{2}$
75	79 $\frac{1}{8}$	93 $\frac{3}{4}$	107 $\frac{1}{2}$	117 $\frac{1}{2}$	131 $\frac{1}{4}$	131 $\frac{1}{4}$
76	80 $\frac{1}{4}$	95	109 $\frac{1}{4}$	118 $\frac{3}{4}$	133	133
77	81 $\frac{1}{8}$	96 $\frac{1}{4}$	110 $\frac{1}{2}$	120 $\frac{1}{2}$	134 $\frac{3}{4}$	134 $\frac{3}{4}$
78	82 $\frac{1}{2}$	97 $\frac{1}{2}$	112 $\frac{1}{2}$	121 $\frac{1}{2}$	136 $\frac{1}{2}$	136 $\frac{1}{2}$
79	83 $\frac{1}{8}$	98 $\frac{3}{4}$	113 $\frac{1}{2}$	123 $\frac{1}{2}$	138 $\frac{1}{4}$	138 $\frac{1}{4}$
80	85	100	115	125	140	140
81	86 $\frac{1}{8}$	101 $\frac{1}{4}$	116 $\frac{1}{2}$	126 $\frac{1}{2}$	141 $\frac{3}{4}$	141 $\frac{3}{4}$
82	87 $\frac{1}{4}$	102 $\frac{1}{2}$	117 $\frac{1}{2}$	128 $\frac{1}{2}$	143 $\frac{1}{2}$	143 $\frac{1}{2}$
83	88 $\frac{1}{8}$	103 $\frac{3}{4}$	119 $\frac{1}{4}$	129 $\frac{1}{4}$	145 $\frac{3}{4}$	145 $\frac{3}{4}$
84	89 $\frac{1}{4}$	105	120 $\frac{3}{4}$	131 $\frac{1}{4}$	147	147
85	90 $\frac{1}{8}$	106 $\frac{1}{2}$	122 $\frac{1}{2}$	132 $\frac{1}{2}$	148 $\frac{3}{4}$	148 $\frac{3}{4}$
86	91 $\frac{1}{4}$	107 $\frac{1}{2}$	123 $\frac{1}{2}$	134 $\frac{1}{2}$	150 $\frac{1}{2}$	150 $\frac{1}{2}$
87	92 $\frac{1}{8}$	108 $\frac{3}{4}$	125 $\frac{1}{4}$	135 $\frac{1}{4}$		
88	93 $\frac{1}{2}$	110	126 $\frac{1}{2}$	137 $\frac{1}{2}$		
89	94 $\frac{1}{8}$	111 $\frac{1}{4}$	128 $\frac{1}{4}$	139 $\frac{1}{4}$		
90	95 $\frac{1}{4}$	112 $\frac{1}{2}$	129 $\frac{1}{2}$	140 $\frac{1}{2}$		
91	96 $\frac{1}{8}$	113 $\frac{3}{4}$	130 $\frac{1}{4}$	142 $\frac{1}{4}$		
92	97 $\frac{1}{4}$	115	132 $\frac{1}{4}$	143 $\frac{3}{4}$		
93	98 $\frac{1}{8}$	116 $\frac{1}{2}$	133 $\frac{1}{2}$	145 $\frac{1}{2}$		
94	99 $\frac{1}{4}$	117 $\frac{1}{2}$	135 $\frac{1}{2}$	146 $\frac{3}{4}$		
95	100 $\frac{1}{8}$	118 $\frac{3}{4}$	136 $\frac{1}{4}$	148 $\frac{1}{4}$		
96	102	120	138	150		
97	103 $\frac{1}{8}$	121 $\frac{1}{4}$	139 $\frac{1}{2}$			
98	104 $\frac{1}{4}$	122 $\frac{1}{2}$	140 $\frac{1}{2}$			
99	105 $\frac{1}{8}$	123 $\frac{3}{4}$	142 $\frac{1}{4}$			
100	106 $\frac{1}{4}$	125	143 $\frac{3}{4}$			
101	107 $\frac{1}{8}$	126 $\frac{1}{2}$	145 $\frac{1}{2}$			
102	108 $\frac{1}{4}$	127 $\frac{1}{2}$	147 $\frac{1}{2}$			



This design can be made of any metal, any required size, any gauge, and any finish. It is necessary that we quote *special prices* in each case. The specifications we require are listed on page 1.

NEWMANCO Perforated Grilles



No. 620

No. 620—2½" units, ⅜" bars

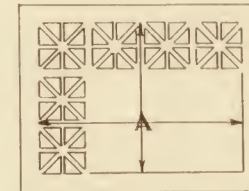
No. 621—3" units, ⅜" bars

No. 622—3½" units, ⅜" bars

Our very popular Union Jack design in a choice of three different sizes of units, and also made in special sizes to order. Used by architects and heating engineers almost as extensively as our plain lattice and diagonal lattice designs. Has a good percentage of open area. For example, No. 621 has an open area of 57%.

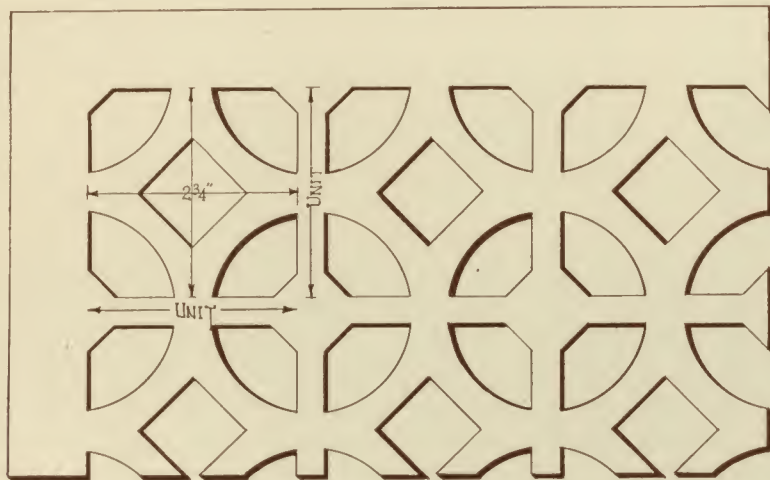
The schedule of opening sizes given below shows the inside border dimension *A*, as indicated on the small diagram we have reproduced. To arrive at the over all size, add twice the width of the margin (or border) desired.

UNITS	UNIT SIZE			UNITS	UNIT SIZE			UNITS	UNIT SIZE		
	2½"	3"	3½"		2½"	3"	3½"		2½"	3"	3½"
	A	A	A		A	A	A		A	A	A
1	2½	3	3½	18	51⅜	60⅜	69⅜	35	100¼	117¾	135¼
2	5⅜	6⅜	7⅜	19	54¼	63¼	73¼	36	103⅜	121⅜	139⅜
3	8¼	9¾	11¼	20	57⅜	67⅜	77⅜	37	106	124¼	143
4	11⅜	13⅜	15⅜	21	60	70½	81	38	108⅜	127⅜	146⅜
5	14	16½	19	22	62⅜	73⅜	84⅜	39	111¼	131¼	150¾
6	16⅜	19⅜	22⅜	23	65¼	77¼	88¼	40	114⅜	134⅜	
7	19¾	23¼	26¾	24	68⅜	80⅜	92⅜	41	117½	138	
8	22⅜	26⅜	30⅜	25	71¼	84	96¼	42	120⅜	141⅜	
9	25½	30	34½	26	74⅜	87⅜	100⅜	43	123¼	144¾	
10	28⅜	33⅜	38⅜	27	77¼	90¼	104¼	44	126⅜	148⅜	
11	31¼	36¾	42¼	28	80⅜	94⅜	108⅜	45	129	151⅜	
12	34⅜	40⅜	46⅜	29	83	97½	112	46	131⅜		
13	37	43½	50	30	85⅜	100⅜	115⅜	47	134¼		
14	39⅜	46⅜	53⅜	31	88¼	104¼	119⅜	48	137⅜		
15	42¾	50¼	57¾	32	91⅜	107⅜	123⅜	49	140⅜		
16	45⅜	53⅜	61⅜	33	94¼	111	127⅜	50	143⅜		
17	48½	57	65½	34	97⅜	114⅜	131⅜				



This design can be made of any metal, any required size, any gauge, and any finish. It is necessary that we quote *special prices* in each case. The specifications we require are listed on page 1.

NEWMANCO Perforated Grilles



No. 820

No. 820—2 3/4" units, 3/8" bars

No. 821—2 3/4" units, 1/2" bars

No. 822—2 3/4" units, 5/8" bars

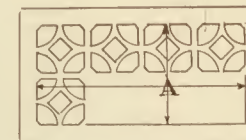
Our new Doric design is always an excellent choice wherever something a trifle unusual can be advantageously used. It is especially recommended for sidewall heat and cold air vents.

The schedule of opening sizes below gives the inside border dimension *A*, as indicated on the small diagram we have reproduced. To arrive at the over all size, add twice the width of the margin (or border) desired.

UNITS	BAR SIZE		
	3/8"	1/2"	5/8"
	A	A	A
1	2 3/4	2 3/4	2 3/4
2	5 7/8	6	6 3/8
3	9	9 1/4	9 1/2
4	12 1/8	12 1/2	12 7/8
5	15 1/4	15 3/4	16 1/4
6	18 3/8	19	19 3/8
7	21 1/2	22 1/4	23
8	24 5/8	25 1/2	26 5/8
9	27 3/4	28 3/4	29 3/4
10	30 7/8	32	33 3/8
11	34	35 1/4	36 1/2
12	37 3/8	38 1/2	39 7/8
13	40 1/4	41 3/4	43 1/4
14	43 3/8	45	46 5/8
15	46 1/2	48 1/4	50
16	49 5/8	51 1/2	53 3/8
17	52 3/4	54 3/4	56 3/4

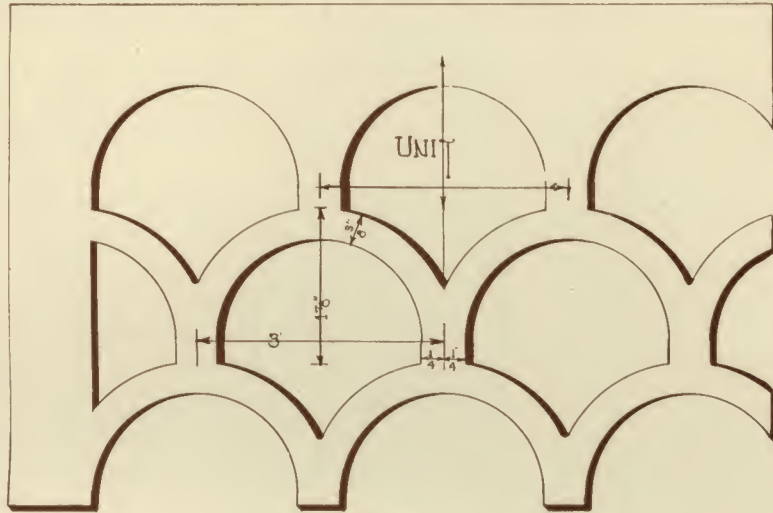
UNITS	BAR SIZE		
	3/8"	1/2"	5/8"
	A	A	A
18	55 7/8	58	60 3/8
19	59	61 1/4	63 1/2
20	62 1/8	64 1/2	66 7/8
21	65 1/4	67 3/4	70 1/4
22	68 3/8	71	73 5/8
23	71 1/2	74 1/4	77
24	74 5/8	77 1/2	80 3/8
25	77 3/4	80 3/4	83 3/4
26	80 7/8	84	87 1/8
27	84	87 1/4	90 1/2
28	87 1/8	90 1/2	93 7/8
29	90 1/4	93 3/4	97 1/4
30	93 3/8	97	100 5/8
31	96 1/2	100 1/4	104
32	99 5/8	103 1/2	107 3/8
33	102 3/4	106 3/4	110 3/4
34	105 7/8	110	114 1/8

UNITS	BAR SIZE		
	3/8"	1/2"	5/8"
	A	A	A
35	109	113 1/4	117 1/2
36	112 1/8	116 1/2	120 7/8
37	115 1/4	119 3/4	124 1/4
38	118 3/8	123	127 5/8
39	121 1/2	126 1/4	131
40	124 5/8	129 1/2	134 3/8
41	127 3/4	132 3/4	137 3/4
42	130 7/8	136	141 1/8
43	134	139 1/4	144 1/2
44	137 1/8	142 1/2	147 7/8
45	140 1/4	145 3/4	151 1/4
46	143 3/8	149	
47	146 1/2	152 1/4	
48	149 5/8		
49	152 3/4		



This design can be made of any metal, any required size, any gauge, and any finish. It is necessary that we quote *special prices* in each case. The specifications we require are listed on page 1.

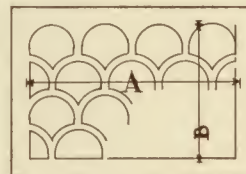
NEWMANCO Perforated Grilles



No. 200

The following schedule gives the inside border dimension A-B. To arrive at the over all size, add twice the width of the margin (or border) desired.

Units	A	B	Units	A	B	Units	A	B	Units	A	B
1	3	17 $\frac{1}{8}$	26	78	483 $\frac{1}{4}$	51		955 $\frac{1}{8}$	76		142 $\frac{1}{2}$
2	6	33 $\frac{1}{4}$	27	81	505 $\frac{1}{8}$	52		977 $\frac{1}{2}$	77		1443 $\frac{1}{8}$
3	9	55 $\frac{1}{8}$	28	84	527 $\frac{1}{2}$	53		999 $\frac{1}{8}$	78		1465 $\frac{1}{4}$
4	12	77 $\frac{1}{2}$	29	87	549 $\frac{1}{8}$	54		1011 $\frac{1}{4}$	79		1487 $\frac{1}{8}$
5	15	99 $\frac{1}{8}$	30	90	561 $\frac{1}{4}$	55		1033 $\frac{1}{8}$	80		150
6	18	111 $\frac{1}{4}$	31	93	583 $\frac{1}{8}$	56		105	81		1517 $\frac{1}{8}$
7	21	133 $\frac{1}{8}$	32	96	60	57		1067 $\frac{1}{8}$			
8	24	15	33	99	627 $\frac{1}{8}$	58		1089 $\frac{1}{4}$			
9	27	167 $\frac{1}{8}$	34	102	633 $\frac{1}{4}$	59		1109 $\frac{1}{8}$			
10	30	183 $\frac{1}{4}$	35	105	655 $\frac{1}{8}$	60		1121 $\frac{1}{2}$			
11	33	205 $\frac{1}{8}$	36	108	677 $\frac{1}{2}$	61		1143 $\frac{1}{8}$			
12	36	227 $\frac{1}{2}$	37	111	699 $\frac{1}{8}$	62		1165 $\frac{1}{4}$			
13	39	249 $\frac{1}{8}$	38	114	711 $\frac{1}{4}$	63		1187 $\frac{1}{8}$			
14	42	261 $\frac{1}{4}$	39	117	733 $\frac{1}{8}$	64		120			
15	45	283 $\frac{1}{8}$	40	120	75	65		1217 $\frac{1}{8}$			
16	48	30	41	123	767 $\frac{1}{8}$	66		1233 $\frac{1}{4}$			
17	51	317 $\frac{1}{8}$	42	126	789 $\frac{1}{4}$	67		1255 $\frac{1}{8}$			
18	54	333 $\frac{1}{4}$	43	129	809 $\frac{1}{8}$	68		1277 $\frac{1}{2}$			
19	57	355 $\frac{1}{8}$	44	132	827 $\frac{1}{2}$	69		1299 $\frac{1}{8}$			
20	60	377 $\frac{1}{2}$	45	135	849 $\frac{1}{8}$	70		1311 $\frac{1}{4}$			
21	63	399 $\frac{1}{8}$	46	138	867 $\frac{1}{4}$	71		1333 $\frac{1}{8}$			
22	66	417 $\frac{1}{4}$	47	141	889 $\frac{1}{8}$	72		135			
23	69	437 $\frac{1}{8}$	48	144	90	73		1367 $\frac{1}{8}$			
24	72	45	49	147	917 $\frac{1}{8}$	74		1383 $\frac{1}{4}$			
25	75	467 $\frac{1}{8}$	50	150	933 $\frac{1}{4}$	75		1405 $\frac{1}{8}$			



Radiator Enclosures

The modern method and the best practice is to conceal the radiators, especially in residences. At best their gilded coils are unsightly, and the sensible thing is to tuck them away in recesses where they will not take up valuable floor space. These recesses are being covered with perforated steel or bronze grilles, of plain or architectural design, in finishes to harmonize with the interior treatment and room furnishings.

Wherever the rooms are already equipped with exposed radiators, these can be covered with enclosures or cabinets of perforated metal. Such cabinets slip down over the tops of the radiators, permitting of natural circulation by discharging the heated air through the perforations near the top, while the cold air is drawn in through the bottom of the enclosure.

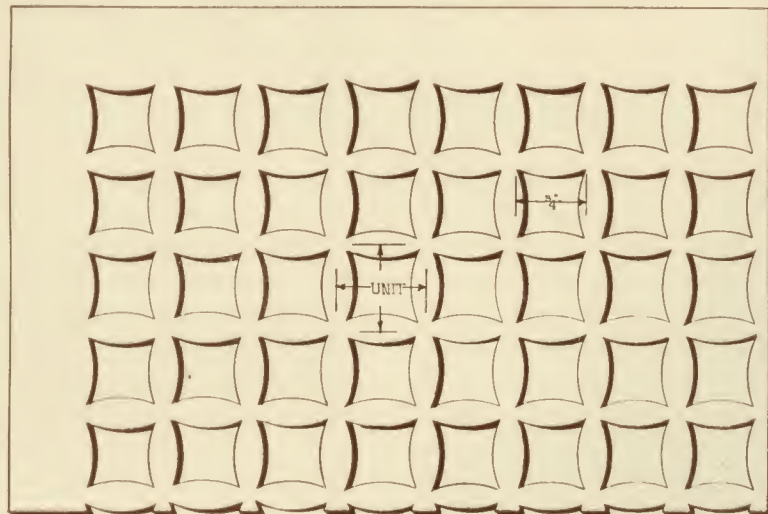
Tests prove that the maximum loss of radiation when recesses are covered with perforated grilles is 20% over the open type radiation method, while the extreme loss is only 10 to 15% when open radiators are covered with our perforated steel or bronze cabinets.

It will be a real pleasure to submit sketches and pertinent suggestions for the covering of radiator installations, together with estimates of cost, upon receipt of blueprints or measurements. There will be no obligations, of course.

* * * * *

We especially invite correspondence with architects and others interested in high grade cast bronze radiator grilles of all kinds, and it should be remembered that we are adding constantly to our line of stock designs, so that this catalog does not pretend to show all of the available styles.

NEWMANCO Perforated Grilles



No. 250

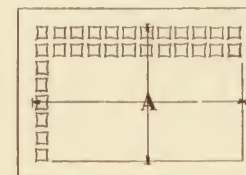
$\frac{3}{4}$ " UNIT

Units	A	Units	A	Units	A	Units	A	Units	A
1	1	31	31	61	61	91	91	121	121
2	2	32	32	62	62	92	92	122	122
3	3	33	33	63	63	93	93	123	123
4	4	34	34	64	64	94	94	124	124
5	5	35	35	65	65	95	95	125	125
6	6	36	36	66	66	96	96	126	126
7	7	37	37	67	67	97	97	127	127
8	8	38	38	68	68	98	98	128	128
9	9	39	39	69	69	99	99	129	129
10	10	40	40	70	70	100	100	130	130
11	11	41	41	71	71	101	101	131	131
12	12	42	42	72	72	102	102	132	132
13	13	43	43	73	73	103	103	133	133
14	14	44	44	74	74	104	104	134	134
15	15	45	45	75	75	105	105	135	135
16	16	46	46	76	76	106	106	136	136
17	17	47	47	77	77	107	107	137	137
18	18	48	48	78	78	108	108	138	138
19	19	49	49	79	79	109	109	139	139
20	20	50	50	80	80	110	110	140	140
21	21	51	51	81	81	111	111	141	141
22	22	52	52	82	82	112	112	142	142
23	23	53	53	83	83	113	113	143	143
24	24	54	54	84	84	114	114	144	144
25	25	55	55	85	85	115	115	145	145
26	26	56	56	86	86	116	116	146	146
27	27	57	57	87	87	117	117	147	147
28	28	58	58	88	88	118	118	148	148
29	29	59	59	89	89	119	119	149	149
30	30	60	60	90	90	120	120	150	150

Grille No. 250 is one of our neatest and most practicable designs for almost any job.

It should be clearly understood that we are constantly adding to our line of stock design perforated grilles, so that by the time you read this catalog we very probably will have on hand the dies for every standard design offered by other manufacturers. At the very least we can quote strictly competitive prices for standard or special designs of every variety.

The schedule of opening sizes below gives the inside border dimension *A*, as indicated on the small diagram we have reproduced. To arrive at the over all size, add twice the width of the margin (or border) desired.



This design can be made of any metal, any required size, any gauge, and any finish. It is necessary that we quote *special prices* in each case. The specifications we require are listed on page 1.

NEWMANCO Cast Grilles



Federal Reserve Bank, Oklahoma City, Okla.



Masonic Temple, Springfield, Mass.

This section of the catalog pictures just a few of our scores of stock design cast brass and bronze grilles. Other designs have been added to our line since the catalog was given to the printer.

We have on hand the basic pattern for each of these designs. In some instances we may have the complete pattern for exactly the style grille you need, and in the correct size, or possibly in a size that can be adapted to your requirements.

METALS AND FINISHES

Any of the grilles illustrated on the following pages can be cast of brass, bronze, nickel, aluminum, Monel or any special alloy.

We use the French Sand Process exclusively. The wax, wood or plaster patterns are impressed in finely sifted French sand, bound and baked. By this method we insure perfect castings, free from pits and other imperfections.

The rough castings are beautifully hand-chased (or tooled) by master craftsmen, and you will find that NEWMANCO Cast Grilles are indeed "equal to the best", in quality and workmanship.

Our cast grilles may be had in natural colorings, highly polished and lacquered or oiled. Or, they may be electro-plated in verde antique, chromium or any other specified finish.

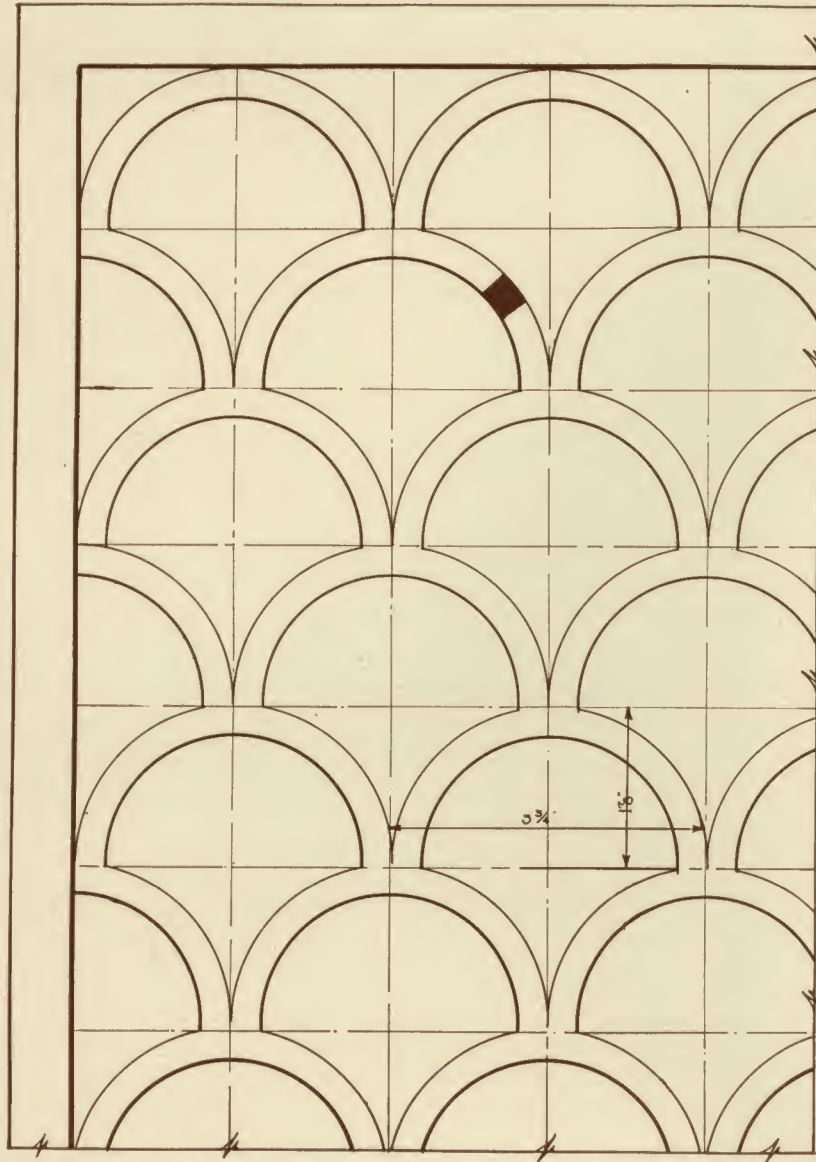
There are no limitations as to sizes, shapes or designs. We can quote on one or one hundred cast metal grilles, made of anything other than iron.

SPECIAL PRICES

It will be a real pleasure to devise special designs for specific uses, if none of our stock numbers appeal to you. Our prices for special cast grilles are consistently low, though we freely admit that you can save money if you utilize those shown in this booklet.

IT IS ABSOLUTELY NECESSARY THAT WE QUOTE SPECIAL PRICES FOR EITHER STOCK DESIGN OR SPECIAL CAST GRILLES. Our requirements for estimating will be found listed on page 1.

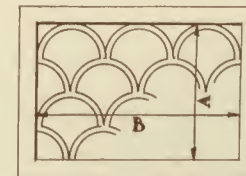
NEWMANCO Cast Grilles



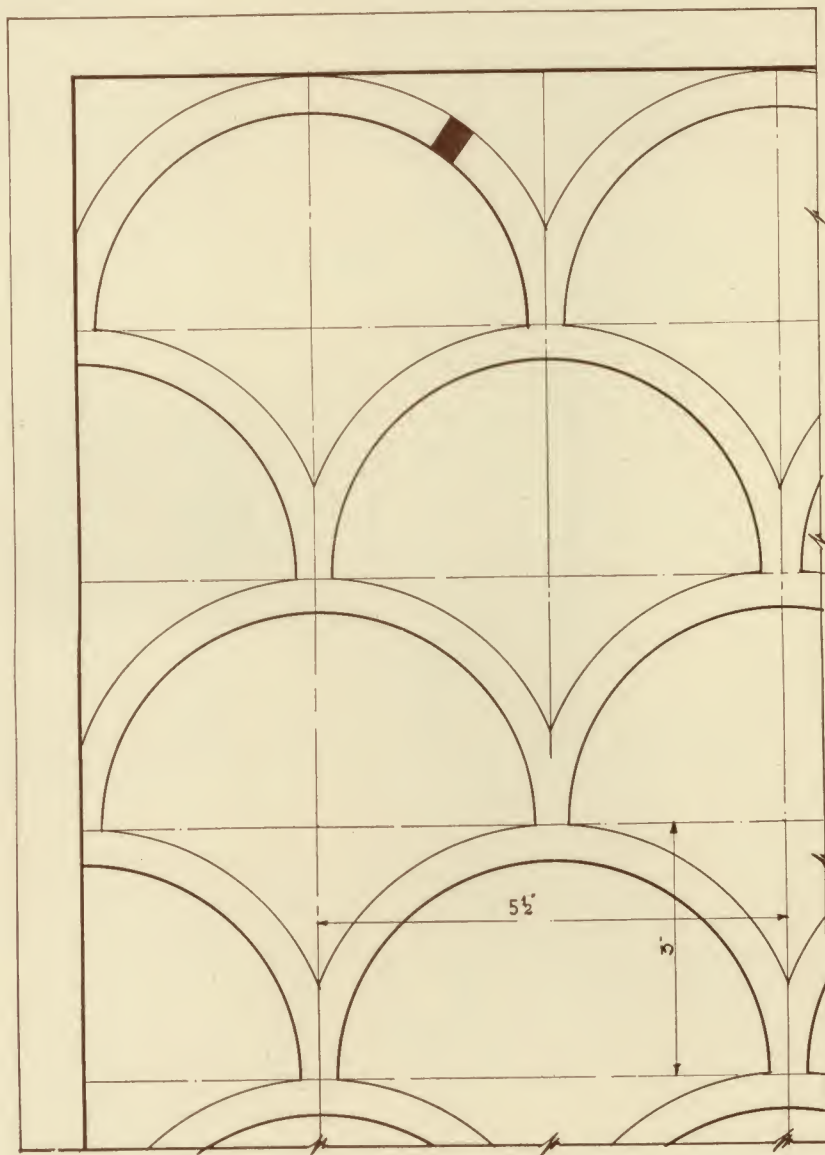
No. 223

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A
1	17 $\frac{3}{8}$	33 $\frac{3}{4}$	42	78 $\frac{3}{4}$
2	33 $\frac{3}{4}$	71 $\frac{1}{2}$	43	80 $\frac{5}{8}$
3	50 $\frac{5}{8}$	111 $\frac{1}{4}$	44	82 $\frac{1}{2}$
4	71 $\frac{1}{2}$	14	45	84 $\frac{3}{8}$
5	93 $\frac{3}{8}$	173 $\frac{3}{4}$	46	86 $\frac{1}{4}$
6	111 $\frac{1}{4}$	211 $\frac{1}{2}$	47	88 $\frac{1}{8}$
7	131 $\frac{1}{8}$	251 $\frac{1}{4}$	48	90
8	15	29	49	917 $\frac{1}{8}$
9	167 $\frac{1}{8}$	333 $\frac{3}{4}$	50	933 $\frac{3}{4}$
10	183 $\frac{3}{4}$	371 $\frac{1}{2}$	51	955 $\frac{1}{8}$
11	205 $\frac{5}{8}$	411 $\frac{1}{4}$	52	971 $\frac{1}{2}$
12	221 $\frac{1}{2}$	45	53	993 $\frac{3}{8}$
13	243 $\frac{3}{8}$	483 $\frac{3}{4}$	54	1011 $\frac{1}{4}$
14	261 $\frac{1}{4}$	521 $\frac{1}{2}$	55	1031 $\frac{1}{8}$
15	281 $\frac{1}{8}$	561 $\frac{1}{4}$	56	105
16	30	60	57	1067 $\frac{1}{8}$
17	317 $\frac{1}{4}$	633 $\frac{3}{4}$	58	1083 $\frac{3}{4}$
18	333 $\frac{3}{4}$	671 $\frac{1}{2}$	59	1105 $\frac{1}{8}$
19	355 $\frac{5}{8}$	711 $\frac{1}{4}$	60	1121 $\frac{1}{2}$
20	371 $\frac{1}{2}$	75	61	1143 $\frac{3}{8}$
21	393 $\frac{3}{8}$	783 $\frac{3}{4}$	62	1161 $\frac{1}{4}$
22	411 $\frac{1}{4}$	821 $\frac{1}{2}$	63	1181 $\frac{1}{8}$
23	431 $\frac{1}{8}$	861 $\frac{1}{4}$	64	120
24	45	90	65	1217 $\frac{1}{8}$
25	467 $\frac{1}{8}$	933 $\frac{3}{4}$	66	1233 $\frac{3}{4}$
26	483 $\frac{3}{4}$	971 $\frac{1}{2}$	67	1255 $\frac{1}{8}$
27	505 $\frac{5}{8}$	1011 $\frac{1}{4}$	68	1271 $\frac{1}{2}$
28	521 $\frac{1}{2}$	105	69	1293 $\frac{3}{8}$
29	543 $\frac{3}{8}$	1083 $\frac{3}{4}$	70	1311 $\frac{1}{4}$
30	561 $\frac{1}{4}$	1121 $\frac{1}{2}$	71	1331 $\frac{1}{8}$
31	581 $\frac{1}{8}$	1161 $\frac{1}{4}$	72	135
32	60	120	73	1367 $\frac{1}{8}$
33	617 $\frac{1}{8}$	1233 $\frac{3}{4}$	74	1383 $\frac{3}{4}$
34	633 $\frac{3}{4}$	1271 $\frac{1}{2}$	75	1405 $\frac{1}{8}$
35	655 $\frac{5}{8}$	1311 $\frac{1}{4}$	76	1421 $\frac{1}{2}$
36	671 $\frac{1}{2}$	135	77	1443 $\frac{3}{8}$
37	693 $\frac{3}{8}$	1383 $\frac{3}{4}$	78	1461 $\frac{1}{4}$
38	711 $\frac{1}{4}$	1421 $\frac{1}{2}$	79	1481 $\frac{1}{8}$
39	731 $\frac{1}{8}$	1461 $\frac{1}{4}$	80	150
40	75	150		
41	767 $\frac{1}{8}$			



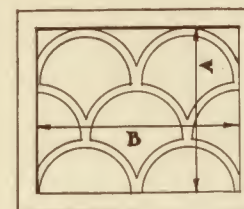
NEWMANCO Cast Grilles



No. 225

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A
1	3	5½	18	54	99½	35	105
2	6	11	19	57	104½	36	108
3	9	16½	20	60	110	37	111
4	12	22	21	63	115½	38	114
5	15	27½	22	66	121	39	117
6	18	33	23	69	126½	40	120
7	21	38½	24	72	132	41	123
8	24	44	25	75	137½	42	126
9	27	49½	26	78	143	43	129
10	30	55	27	81	148½	44	132
11	33	60½	28	84	154	45	135
12	36	66	29	87		46	138
13	39	71½	30	90		47	141
14	42	77	31	93		48	144
15	45	82½	32	96		49	147
16	48	88	33	99		50	150
17	51	93½	34	102			



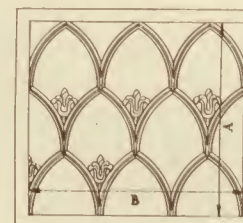
NEWMANCO Cast Grilles



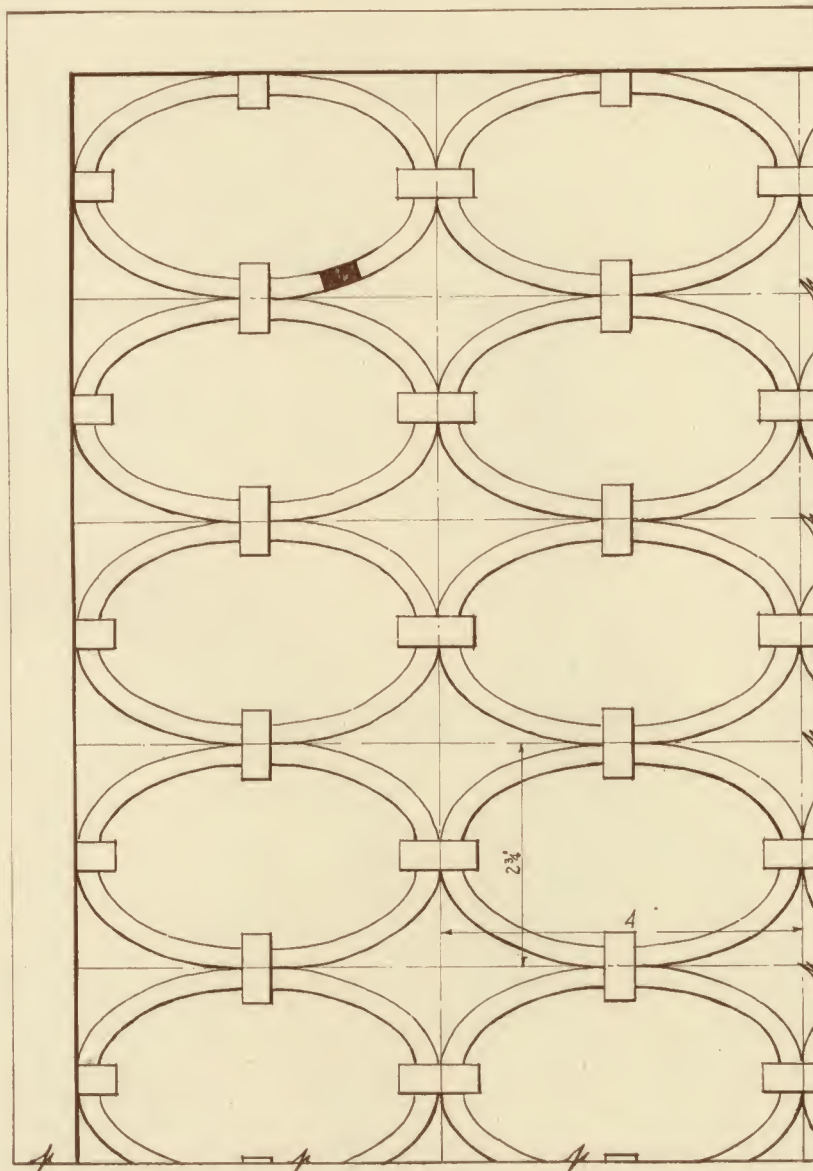
No. 80

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	B	No. of Units	A	B
1	4½	5	18	81	90
2	9	10	19	85½	95
3	13½	15	20	90	100
4	18	20	21	94½	105
5	22½	25	22	99	110
6	27	30	23	103½	115
7	31½	35	24	108	120
8	36	40	25	112½	125
9	40½	45	26	117	130
10	45	50	27	121½	135
11	49½	55	28	126	140
12	54	60	29	130½	145
13	58½	65	30	135	150
14	63	70	31	139½	
15	67½	75	32	144	
16	72	80	33	148½	
17	76½	85	34	153	



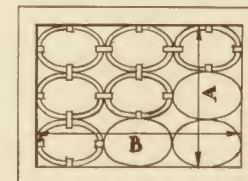
NEWMANCO Cast Grilles



No. 222

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A
1	2 $\frac{3}{4}$	4	20	55	80	39	107 $\frac{1}{4}$
2	5 $\frac{1}{2}$	8	21	57 $\frac{3}{4}$	84	40	110
3	8 $\frac{1}{4}$	12	22	60 $\frac{1}{2}$	88	41	112 $\frac{3}{4}$
4	11	16	23	63 $\frac{1}{4}$	92	42	115 $\frac{1}{2}$
5	13 $\frac{3}{4}$	20	24	66	96	43	118 $\frac{1}{4}$
6	16 $\frac{1}{2}$	24	25	68 $\frac{3}{4}$	100	44	121
7	19 $\frac{1}{4}$	28	26	71 $\frac{1}{2}$	104	45	123 $\frac{3}{4}$
8	22	32	27	74 $\frac{1}{4}$	108	46	126 $\frac{1}{2}$
9	24 $\frac{3}{4}$	36	28	77	112	47	129 $\frac{1}{4}$
10	27 $\frac{1}{2}$	40	29	79 $\frac{3}{4}$	116	48	132
11	30 $\frac{1}{4}$	44	30	82 $\frac{1}{2}$	120	49	134 $\frac{3}{4}$
12	33	48	31	85 $\frac{1}{4}$	124	50	137 $\frac{1}{2}$
13	35 $\frac{3}{4}$	52	32	88	128	51	140 $\frac{1}{4}$
14	38 $\frac{1}{2}$	56	33	90 $\frac{3}{4}$	132	52	143
15	41 $\frac{1}{4}$	60	34	93 $\frac{1}{2}$	136	53	145 $\frac{3}{4}$
16	44	64	35	96 $\frac{1}{4}$	140	54	148 $\frac{1}{2}$
17	46 $\frac{3}{4}$	68	36	99	144	55	151 $\frac{1}{4}$
18	49 $\frac{1}{2}$	72	37	101 $\frac{3}{4}$	148		
19	52 $\frac{1}{4}$	76	38	104 $\frac{1}{2}$	152		



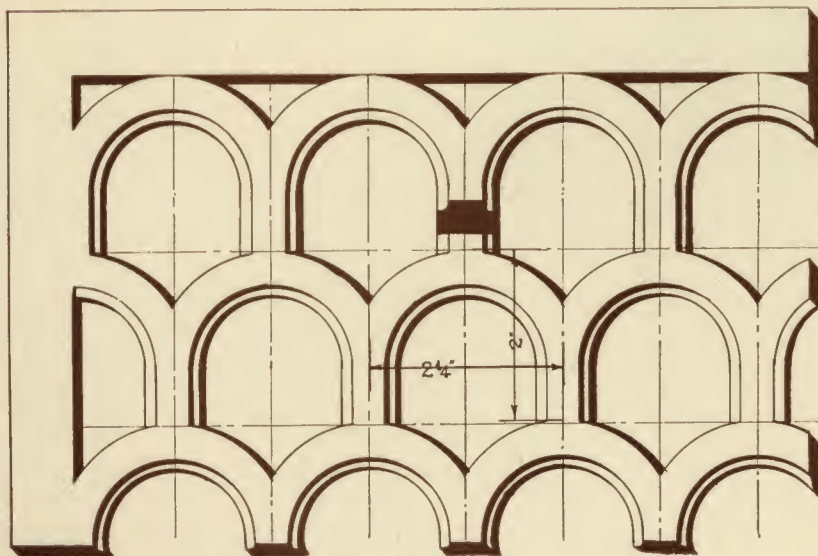
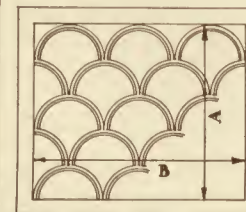
NEWMANCO Cast Grilles



No. 94

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

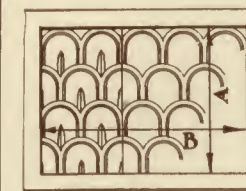
Units	A	B	Units	A	B	Units	A	B	Units	A	B
1	2 1/4	4 1/4	19	40 3/4	80 3/4	37	78 5/8		55	116 7/8	
2	4 1/4	8 1/2	20	42 1/2	85	38	80 3/4		56	119	
3	6 3/4	12 3/4	21	44 5/8	89 1/4	39	82 7/8		57	121 1/4	
4	8 1/2	17	22	46 3/4	93 1/2	40	85		58	123 1/4	
5	10 5/8	21 1/4	23	48 7/8	97 3/4	41	87 1/4		59	125 3/8	
6	12 3/4	25 1/2	24	51	102	42	89 1/4		60	127 1/2	
7	14 7/8	29 3/4	25	53 1/8	106 1/4	43	91 3/8		61	129 5/8	
8	17	34	26	55 1/4	110 1/2	44	93 1/2		62	131 3/4	
9	19 1/8	38 1/4	27	57 3/4	114 3/4	45	95 5/8		63	133 7/8	
10	21 1/4	42 1/2	28	59 1/2	119	46	97 3/4		64	136	
11	23 3/4	46 3/4	29	61 1/2	123 1/4	47	99 7/8		65	138 1/4	
12	25 1/2	51	30	63 3/4	127 1/2	48	102		66	140 1/4	
13	27 5/8	55 1/4	31	65 7/8	131 3/4	49	104 1/8		67	142 3/8	
14	29 3/4	59 1/2	32	68	136	50	106 1/4		68	144 1/2	
15	31 7/8	63 3/4	33	70 1/8	140 1/4	51	108 3/8		69	146 5/8	
16	34	68	34	72 1/4	144 1/2	52	110 1/2		70	148 3/4	
17	36 1/8	72 1/4	35	74 3/8	148 3/4	53	112 5/8		71	150 7/8	
18	38 1/4	76 1/2	36	76 1/2	153	54	114 3/4		72	153	



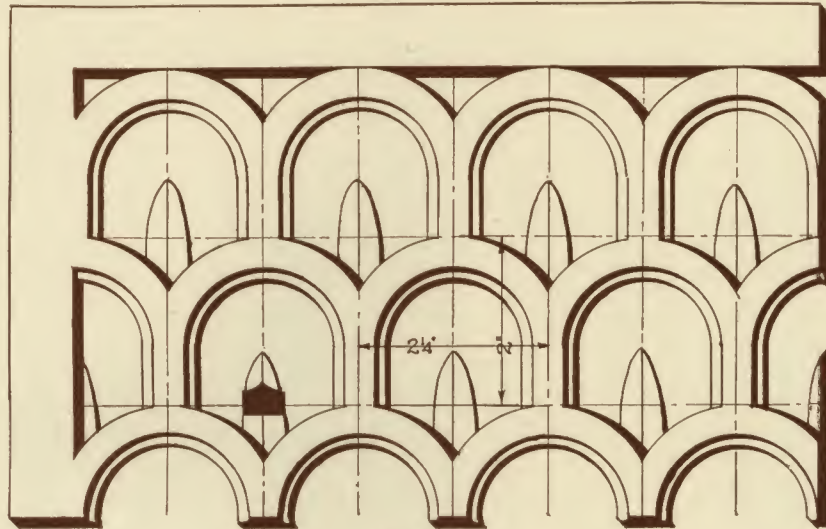
No. 354 A

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

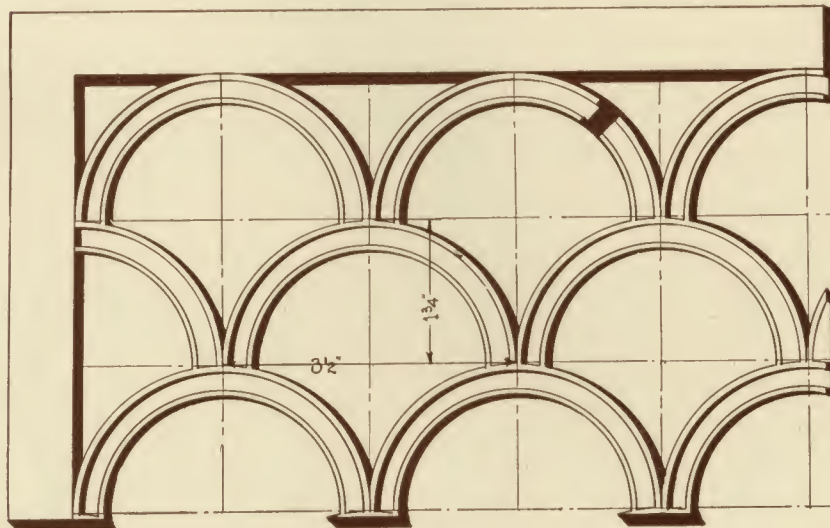
Units	A	B	Units	A	B	Units	A	B	Units	A	B
1	2	2 1/4	20	40	45	39	78	87 3/4	58	116	130 1/2
2	4	4 1/4	21	42	47 1/4	40	80	90	59	118	132 3/4
3	6	6 3/4	22	44	49 1/2	41	82	92 1/4	60	120	135
4	8	9	23	46	51 3/4	42	84	94 1/2	61	122	137 1/4
5	10	11 1/4	24	48	54	43	86	96 3/4	62	124	139 1/2
6	12	13 1/2	25	50	56 1/4	44	88	99	63	126	141 3/4
7	14	15 3/4	26	52	58 1/2	45	90	101 1/4	64	128	144
8	16	18	27	54	60 3/4	46	92	103 1/2	65	130	146 1/4
9	18	20 1/4	28	56	63	47	94	105 3/4	66	132	148 1/2
10	20	22 1/2	29	58	65 1/4	48	96	108	67	134	150 3/4
11	22	24 3/4	30	60	67 1/2	49	98	110 1/4	68	136	
12	24	27	31	62	69 3/4	50	100	112 1/2	69	138	
13	26	29 1/4	32	64	72	51	102	114 3/4	70	140	
14	28	31 3/4	33	66	74 1/4	52	104	117	71	142	
15	30	33 3/4	34	68	76 1/2	53	106	119 1/4	72	144	
16	32	36	35	70	78 3/4	54	108	121 1/2	73	146	
17	34	38 1/4	36	72	81	55	110	123 3/4	74	148	
18	36	40 1/2	37	74	83 1/4	56	112	126	75	150	
19	38	42 3/4	38	76	85 1/2	57	114	128 1/4			



NEWMANCO Cast Grilles



No. 354



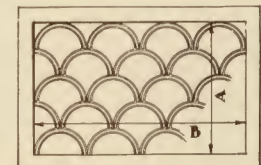
No. 224

The following schedule gives the border dimension *A-B*, as shown in the small diagram which accompanies the schedule at the bottom of page 14. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A	B	Units	A	B
1	2	2 1/4	20	40	45	39	78	87 3/4	58	116	130 1/2
2	4	4 1/2	21	42	47 1/4	40	80	90	59	118	132 3/4
3	6	6 3/4	22	44	49 1/2	41	82	92 1/4	60	120	135
4	8	9	23	46	51 3/4	42	84	94 1/2	61	122	137 1/4
5	10	11 1/4	24	48	54	43	86	96 3/4	62	124	139 1/2
6	12	13 1/2	25	50	56 1/4	44	88	99	63	126	141 3/4
7	14	15 3/4	26	52	58 1/2	45	90	101 1/4	64	128	144
8	16	18	27	54	60 3/4	46	92	103 1/2	65	130	146 1/4
9	18	20 1/4	28	56	63	47	94	105 3/4	66	132	148 1/2
10	20	22 1/2	29	58	65 1/4	48	96	108	67	134	150 3/4
11	22	24 3/4	30	60	67 1/2	49	98	110 1/4	68	136	
12	24	27	31	62	69 3/4	50	100	112 1/2	69	138	
13	26	29 1/4	32	64	72	51	102	114 3/4	70	140	
14	28	31 1/2	33	66	74 1/4	52	104	117	71	142	
15	30	33 3/4	34	68	76 1/2	53	106	119 1/4	72	144	
16	32	36	35	70	78 3/4	54	108	121 1/2	73	146	
17	34	38 1/4	36	72	81	55	110	123 3/4	74	148	
18	36	40 1/2	37	74	83 1/4	56	112	126	75	150	
19	38	42 3/4	38	76	85 1/2	57	114	128 1/4			

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

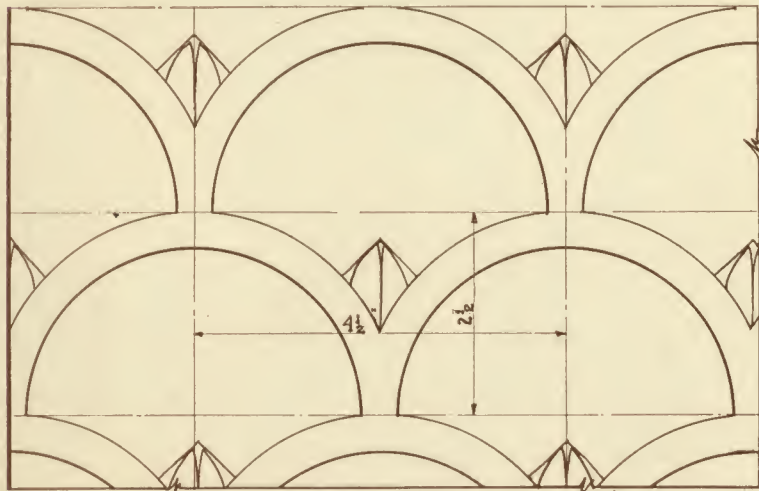
Units	A	B	Units	A	B	Units	A	Units	A
1	1 3/4	3 1/2	23	40 1/4	80 1/2	45	78 3/4	67	117 1/4
2	3 1/2	7	24	42	84	46	80 1/2	68	119
3	5 1/4	10 1/2	25	43 3/4	87 1/2	47	82 1/4	69	120 3/4
4	7	14	26	45 1/2	91	48	84	70	122 1/2
5	8 3/4	17 1/2	27	47 1/4	94 1/2	49	85 3/4	71	124 1/4
6	10 1/2	21	28	49	98	50	87 1/2	72	126
7	12 1/4	24 1/2	29	50 3/4	101 1/2	51	89 1/4	73	127 3/4
8	14	28	30	52 1/2	105	52	91	74	129 1/2
9	15 3/4	31 1/2	31	54 1/4	108 1/2	53	92 3/4	75	131 1/4
10	17 1/2	35	32	56	112	54	94 1/2	76	133
11	19 1/4	38 1/4	33	57 3/4	115 1/4	55	96 1/4	77	134 3/4
12	21	42	34	59 1/2	119	56	98	78	136 1/2
13	22 3/4	45 1/2	35	61 1/4	122 1/2	57	99 3/4	79	138 1/4
14	24 1/2	49	36	63	126	58	101 1/2	80	140
15	26 1/4	52 1/2	37	64 3/4	129 1/2	59	103 1/4	81	141 3/4
16	28	56	38	66 1/2	133	60	105	82	143 1/2
17	29 3/4	59 1/2	39	68 1/4	136 1/2	61	106 3/4	83	145 1/4
18	31 1/2	63	40	70	140	62	108 1/2	84	147
19	33 1/4	66 1/2	41	71 3/4	143 1/2	63	110 1/4	85	148 3/4
20	35	70	42	73 1/2	147	64	112	86	150 1/2
21	36 3/4	73 1/2	43	75 1/4	150 1/2	65	113 3/4		
22	38 1/2	77	44	77		66	115 1/2		



NEWMANCO Cast Grilles



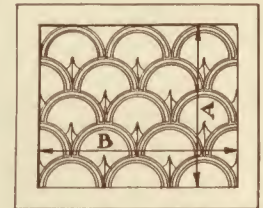
No. 274



No. 216

The following schedule gives the inside border dimension A-B. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	B	No. of Units	A	B	No. of Units	A	No. of Units	A
1	1 1/8	3 1/8	25	39 1/8	78 1/8	49	76 1/8	73	114 1/8
2	3 1/8	6 1/8	26	40 1/8	81 1/8	50	78 1/8	74	115 1/8
3	4 1/8	9 1/8	27	42 1/8	84 1/8	51	79 1/8	75	117 1/8
4	6 1/8	12 1/8	28	43 1/8	87 1/8	52	81 1/8	76	118 1/8
5	7 1/8	15 1/8	29	45 1/8	90 1/8	53	82 1/8	77	120 1/8
6	9 1/8	18 1/8	30	46 1/8	93 1/8	54	84 1/8	78	121 1/8
7	10 1/8	21 1/8	31	48 1/8	96 1/8	55	85 1/8	79	123 1/8
8	12 1/8	25	32	50	100	56	87 1/8	80	125
9	14 1/8	28 1/8	33	51 1/8	103 1/8	57	89 1/8	81	126 1/8
10	15 1/8	31 1/8	34	53 1/8	106 1/8	58	90 1/8	82	128 1/8
11	17 1/8	34 1/8	35	54 1/8	109 1/8	59	92 1/8	83	129 1/8
12	18 1/8	37 1/8	36	56 1/8	112 1/8	60	93 1/8	84	131 1/8
13	20 1/8	40 1/8	37	57 1/8	115 1/8	61	95 1/8	85	132 1/8
14	21 1/8	43 1/8	38	59 1/8	118 1/8	62	96 1/8	86	134 1/8
15	23 1/8	46 1/8	39	60 1/8	121 1/8	63	98 1/8	87	135 1/8
16	25	50	40	62 1/8	125	64	100	88	137 1/8
17	26 1/8	53 1/8	41	64 1/8	128 1/8	65	101 1/8	89	139 1/8
18	28 1/8	56 1/8	42	65 1/8	131 1/8	66	103 1/8	90	140 1/8
19	29 1/8	59 1/8	43	67 1/8	134 1/8	67	104 1/8	91	142 1/8
20	31 1/8	62 1/8	44	68 1/8	137 1/8	68	106 1/8	92	143 1/8
21	32 1/8	65 1/8	45	70 1/8	140 1/8	69	107 1/8	93	145 1/8
22	34 1/8	68 1/8	46	71 1/8	143 1/8	70	109 1/8	94	146 1/8
23	35 1/8	71 1/8	47	73 1/8	146 1/8	71	110 1/8	95	148 1/8
24	37 1/8	75	48	75	150	72	112 1/8	96	150

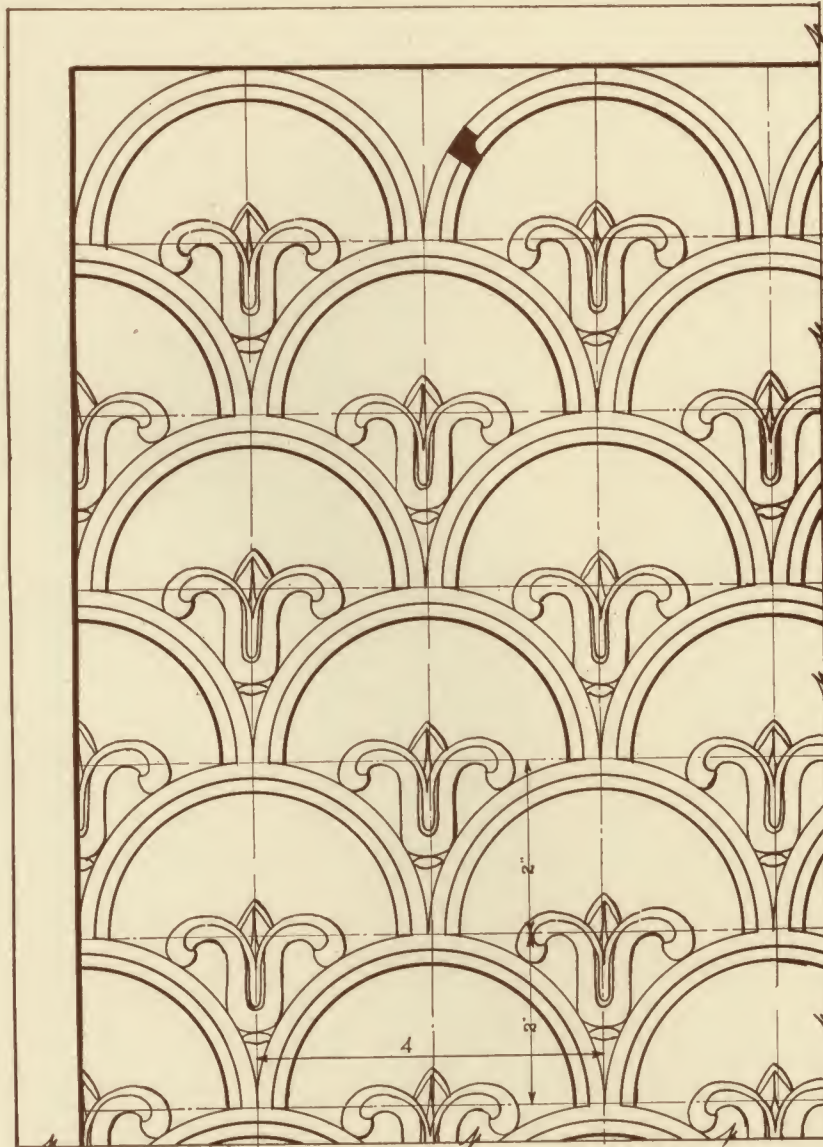


The following schedule gives the inside border dimension A-B. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	B	No. of Units	A	B	No. of Units	A	No. of Units	A
1	2 1/2	4 1/2	16	40	72	31	77 1/2	46	115
2	5	9	17	42 1/2	76 1/2	32	80	47	117 1/2
3	7 1/2	13 1/2	18	45	81	33	82 1/2	48	120
4	10	18	19	47 1/2	85 1/2	34	85	49	122 1/2
5	12 1/2	22 1/2	20	50	90	35	87 1/2	50	125
6	15	27	21	52 1/2	94 1/2	36	90	51	127 1/2
7	17 1/2	31 1/2	22	55	99	37	92 1/2	52	130
8	20	36	23	57 1/2	103 1/2	38	95	53	132 1/2
9	22 1/2	40 1/2	24	60	108	39	97 1/2	54	135
10	25	45	25	62 1/2	112 1/2	40	100	55	137 1/2
11	27 1/2	49 1/2	26	65	117	41	102 1/2	56	140
12	30	54	27	67 1/2	121 1/2	42	105	57	142 1/2
13	32 1/2	58 1/2	28	70	126	43	107 1/2	58	145
14	35	63	29	72 1/2	130 1/2	44	110	59	147 1/2
15	37 1/2	67 1/2	30	75	135	45	112 1/2	60	150



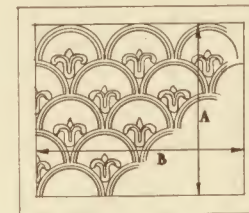
NEWMANCO Cast Grilles



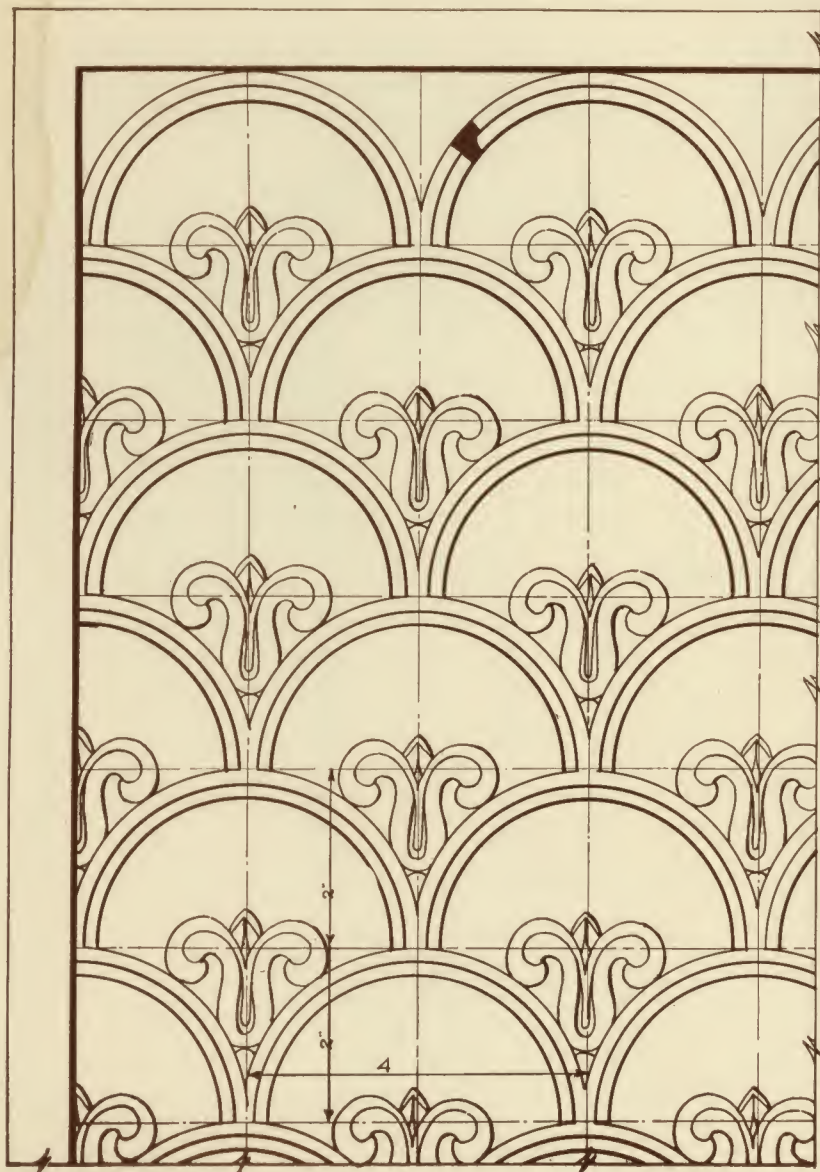
No. 61

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A
1	2	4	26	52	104	51	102
2	4	8	27	54	108	52	104
3	6	12	28	56	112	53	106
4	8	16	29	58	116	54	108
5	10	20	30	60	120	55	110
6	12	24	31	62	124	56	112
7	14	28	32	64	128	57	114
8	16	32	33	66	132	58	116
9	18	36	34	68	136	59	118
10	20	40	35	70	140	60	120
11	22	44	36	72	144	61	122
12	24	48	37	74	148	62	124
13	26	52	38	76	152	63	126
14	28	56	39	78		64	128
15	30	60	40	80		65	130
16	32	64	41	82		66	132
17	34	68	42	84		67	134
18	36	72	43	86		68	136
19	38	76	44	88		69	138
20	40	80	45	90		70	140
21	42	84	46	92		71	142
22	44	88	47	94		72	144
23	46	92	48	96		73	146
24	48	96	49	98		74	148
25	50	100	50	100		75	150

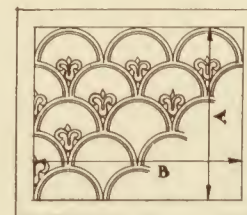


NEWMANCO Cast Grilles



The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A
1	2	4	26	52	104	51	102
2	4	8	27	54	108	52	104
3	6	12	28	56	112	53	106
4	8	16	29	58	116	54	108
5	10	20	30	60	120	55	110
6	12	24	31	62	124	56	112
7	14	28	32	64	128	57	114
8	16	32	33	66	132	58	116
9	18	36	34	68	136	59	118
10	20	40	35	70	140	60	120
11	22	44	36	72	144	61	122
12	24	48	37	74	148	62	124
13	26	52	38	76	152	63	126
14	28	56	39	78		64	128
15	30	60	40	80		65	130
16	32	64	41	82		66	132
17	34	68	42	84		67	134
18	36	72	43	86		68	136
19	38	76	44	88		69	138
20	40	80	45	90		70	140
21	42	84	46	92		71	142
22	44	88	47	94		72	144
23	46	92	48	96		73	146
24	48	96	49	98		74	148
25	50	100	50	100		75	150



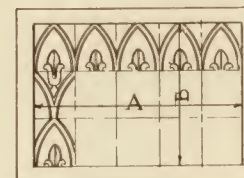
NEWMANCO Cast Grilles



No. 608

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A	B
1	2 $\frac{5}{8}$	3	21	55 $\frac{1}{8}$	63	41	107 $\frac{5}{8}$	123
2	5 $\frac{1}{4}$	6	22	57 $\frac{3}{4}$	66	42	110 $\frac{1}{4}$	126
3	7 $\frac{7}{8}$	9	23	60 $\frac{3}{8}$	69	43	112 $\frac{7}{8}$	129
4	10 $\frac{1}{2}$	12	24	63	72	44	115 $\frac{1}{2}$	132
5	13 $\frac{1}{8}$	15	25	65 $\frac{5}{8}$	75	45	118 $\frac{1}{8}$	135
6	15 $\frac{3}{4}$	18	26	68 $\frac{1}{4}$	78	46	120 $\frac{3}{4}$	138
7	18 $\frac{3}{8}$	21	27	70 $\frac{7}{8}$	81	47	123 $\frac{3}{8}$	141
8	21	24	28	73 $\frac{1}{2}$	84	48	126	144
9	23 $\frac{5}{8}$	27	29	76 $\frac{1}{8}$	87	49	128 $\frac{5}{8}$	147
10	26 $\frac{1}{4}$	30	30	78 $\frac{3}{4}$	90	50	131 $\frac{1}{4}$	150
11	28 $\frac{7}{8}$	33	31	81 $\frac{3}{8}$	93	51	133 $\frac{7}{8}$	
12	31 $\frac{1}{2}$	36	32	84	96	52	136 $\frac{1}{2}$	
13	34 $\frac{1}{8}$	39	33	86 $\frac{5}{8}$	99	53	139 $\frac{1}{8}$	
14	37 $\frac{3}{4}$	42	34	89 $\frac{1}{4}$	102	54	141 $\frac{3}{4}$	
15	39 $\frac{3}{8}$	45	35	91 $\frac{7}{8}$	105	55	144 $\frac{3}{8}$	
16	42	48	36	94 $\frac{1}{2}$	108	56	147	
17	44 $\frac{5}{8}$	51	37	97 $\frac{1}{8}$	111	57	149 $\frac{5}{8}$	
18	47 $\frac{1}{4}$	54	38	99 $\frac{3}{4}$	114	58	152 $\frac{1}{4}$	
19	49 $\frac{7}{8}$	57	39	102 $\frac{3}{8}$	117			
20	52 $\frac{1}{2}$	60	40	105	120			



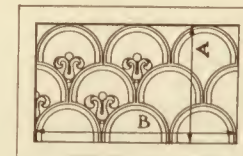
NEWMANCO Cast Grilles



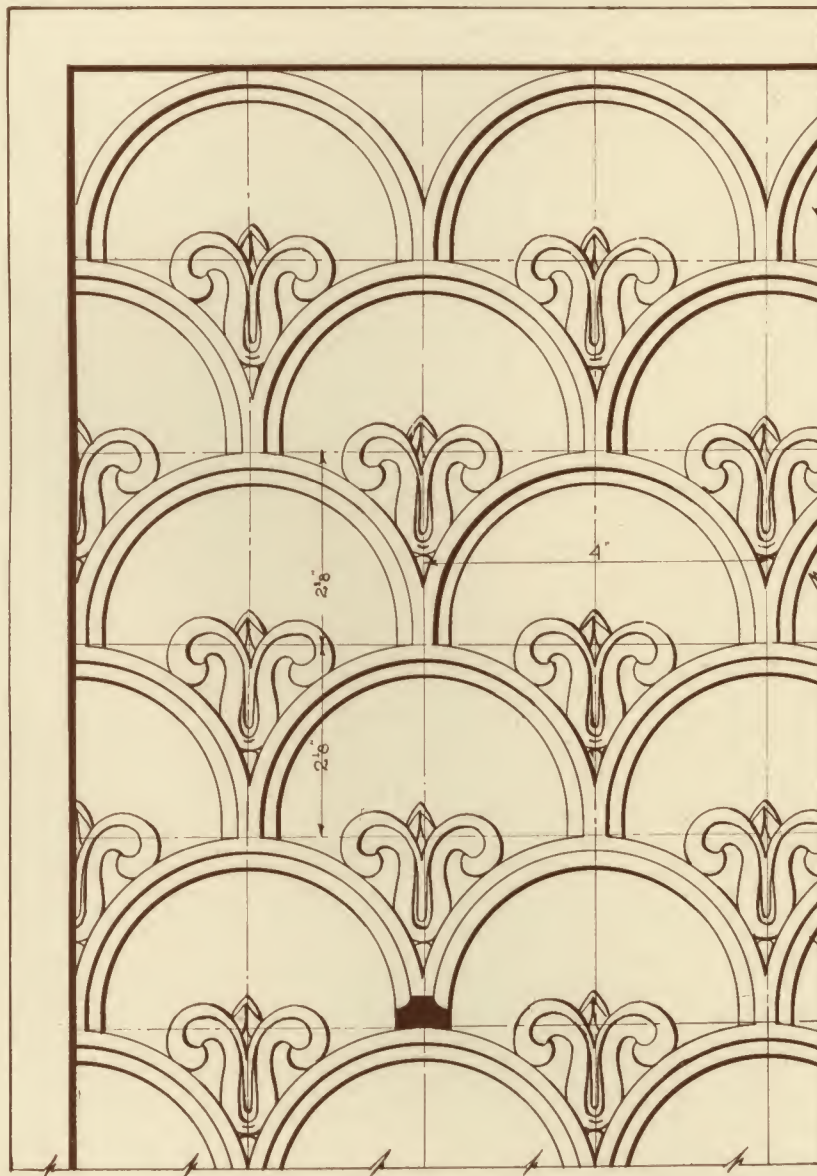
No. 243

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A
1	2 $\frac{1}{4}$	3 $\frac{7}{8}$	24	54	93	47	105 $\frac{3}{4}$
2	4 $\frac{1}{2}$	7 $\frac{3}{4}$	25	56 $\frac{1}{4}$	96 $\frac{7}{8}$	48	108
3	6 $\frac{3}{4}$	11 $\frac{5}{8}$	26	58 $\frac{1}{2}$	100 $\frac{3}{4}$	49	110 $\frac{1}{4}$
4	9	15 $\frac{1}{2}$	27	60 $\frac{3}{4}$	104 $\frac{5}{8}$	50	112 $\frac{1}{2}$
5	11 $\frac{1}{4}$	19 $\frac{3}{8}$	28	63	108 $\frac{1}{2}$	51	114 $\frac{3}{4}$
6	13 $\frac{1}{2}$	23 $\frac{1}{4}$	29	65 $\frac{1}{4}$	112 $\frac{3}{8}$	52	117
7	15 $\frac{3}{4}$	27 $\frac{1}{8}$	30	67 $\frac{1}{2}$	116 $\frac{1}{4}$	53	119 $\frac{1}{4}$
8	18	31	31	69 $\frac{3}{4}$	120 $\frac{1}{8}$	54	121 $\frac{1}{2}$
9	20 $\frac{1}{4}$	34 $\frac{7}{8}$	32	72	124	55	123 $\frac{3}{4}$
10	22 $\frac{1}{2}$	38 $\frac{3}{4}$	33	74 $\frac{1}{4}$	127 $\frac{7}{8}$	56	126
11	24 $\frac{3}{4}$	42 $\frac{5}{8}$	34	76 $\frac{1}{2}$	131 $\frac{3}{4}$	57	128 $\frac{1}{4}$
12	27	46 $\frac{1}{2}$	35	78 $\frac{3}{4}$	135 $\frac{5}{8}$	58	130 $\frac{1}{2}$
13	29 $\frac{1}{4}$	50 $\frac{3}{8}$	36	81	139 $\frac{1}{2}$	59	132 $\frac{3}{4}$
14	31 $\frac{1}{2}$	54 $\frac{1}{4}$	37	83 $\frac{1}{4}$	143 $\frac{3}{8}$	60	135
15	33 $\frac{3}{4}$	58 $\frac{1}{8}$	38	85 $\frac{1}{2}$	147 $\frac{1}{4}$	61	137 $\frac{1}{4}$
16	36	62	39	87 $\frac{3}{4}$	151 $\frac{1}{8}$	62	139 $\frac{1}{2}$
17	38 $\frac{1}{4}$	65 $\frac{7}{8}$	40	90		63	141 $\frac{3}{4}$
18	40 $\frac{1}{2}$	69 $\frac{3}{4}$	41	92 $\frac{1}{4}$		64	144
19	42 $\frac{3}{4}$	73 $\frac{5}{8}$	42	94 $\frac{1}{2}$		65	146 $\frac{1}{4}$
20	45	77 $\frac{1}{2}$	43	96 $\frac{3}{4}$		66	148 $\frac{1}{2}$
21	47 $\frac{1}{4}$	81 $\frac{3}{8}$	44	99		67	150 $\frac{3}{4}$
22	49 $\frac{1}{2}$	85 $\frac{1}{4}$	45	101 $\frac{1}{4}$			
23	51 $\frac{3}{4}$	89 $\frac{1}{8}$	46	103 $\frac{1}{2}$			



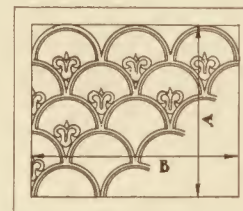
NEWMANCO Cast Grilles



No. 110

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A
1	2 1/8	4	25	53 7/8	100	49	104 7/8
2	4 1/4	8	26	55 1/4	104	50	106 1/4
3	6 3/8	12	27	57 3/8	108	51	108 3/8
4	8 1/2	16	28	59 1/2	112	52	110 1/2
5	10 5/8	20	29	61 5/8	116	53	112 5/8
6	12 3/4	24	30	63 3/4	120	54	114 3/4
7	14 7/8	28	31	65 7/8	124	55	116 7/8
8	17	32	32	68	128	56	119
9	19 1/8	36	33	70 1/8	132	57	121 1/8
10	21 1/4	40	34	72 1/4	136	58	123 1/4
11	23 3/8	44	35	74 3/8	140	59	125 3/8
12	25 1/2	48	36	76 1/2	144	60	127 1/2
13	27 5/8	52	37	78 5/8	148	61	129 5/8
14	29 7/8	56	38	80 3/4	152	62	131 3/4
15	31 7/8	60	39	82 7/8		63	133 7/8
16	34	64	40	85		64	136
17	36 1/8	68	41	87 1/8		65	138 1/8
18	38 1/4	72	42	89 1/4		66	140 1/4
19	40 3/8	76	43	91 3/8		67	142 3/8
20	42 1/2	80	44	93 1/2		68	144 1/2
21	44 5/8	84	45	95 5/8		69	146 5/8
22	46 3/4	88	46	97 3/4		70	148 3/4
23	48 7/8	92	47	99 7/8		71	150 7/8
24	51	96	48	102		72	153



NEWMANCO Cast Grilles



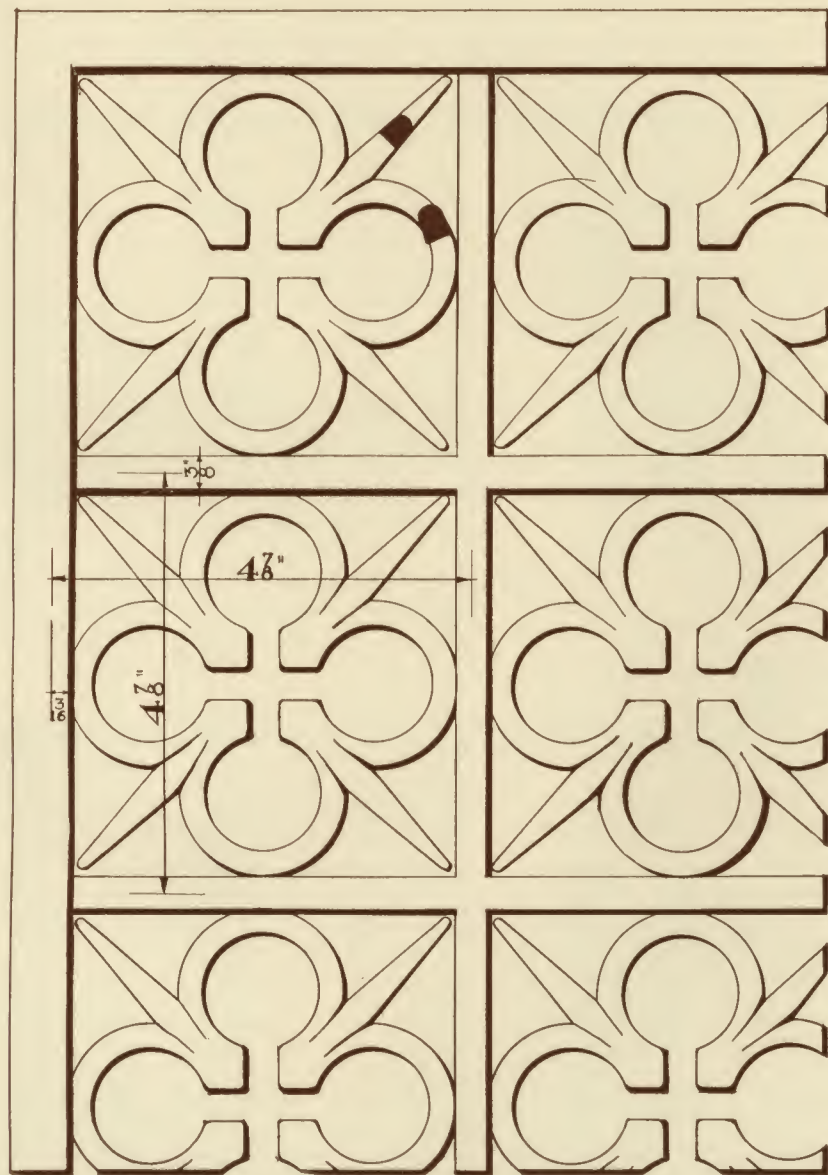
No. 335

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	B	No. of Units	A	B
1	4½	4¾	18	81	85½
2	9	9½	19	85½	90¼
3	13½	14¼	20	90	95
4	18	19	21	94½	99¾
5	22½	23¾	22	99	104½
6	27	28½	23	103½	109¼
7	31½	33¾	24	108	114
8	36	38	25	112½	118¾
9	40½	42¾	26	117	123½
10	45	47½	27	121½	128¼
11	49½	52¼	28	126	133
12	54	57	29	130½	137¾
13	58½	61¾	30	135	142½
14	63	66½	31	139½	147¼
15	67½	71¼	32	144	152
16	72	76	33	148½	
17	76½	80¾	34	153	



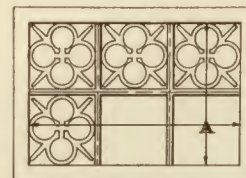
NEWMANCO Cast Grilles



No. 605

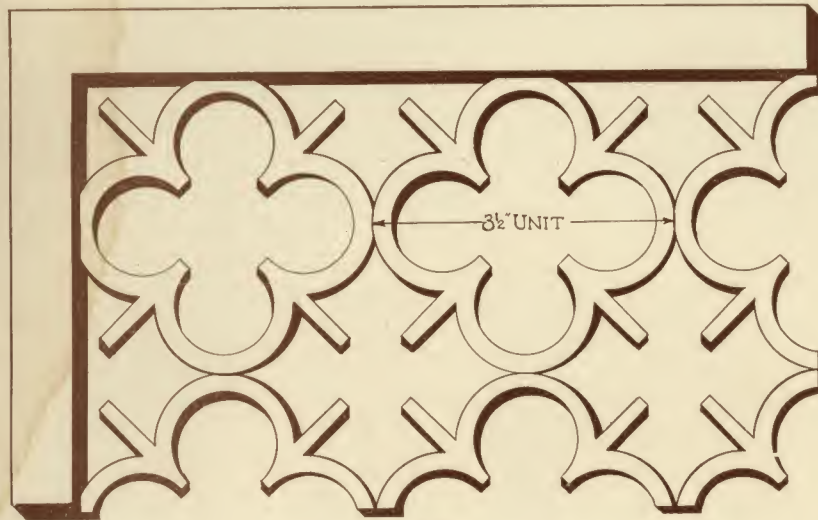
The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	Units	A
1	47 $\frac{7}{8}$	17	827 $\frac{7}{8}$
2	93 $\frac{3}{4}$	18	873 $\frac{3}{4}$
3	143 $\frac{5}{8}$	19	925 $\frac{5}{8}$
4	191 $\frac{1}{2}$	20	971 $\frac{1}{2}$
5	243 $\frac{3}{8}$	21	1023 $\frac{3}{8}$
6	291 $\frac{1}{4}$	22	1071 $\frac{1}{4}$
7	341 $\frac{1}{8}$	23	1121 $\frac{1}{8}$
8	39	24	117
9	437 $\frac{7}{8}$	25	1217 $\frac{7}{8}$
10	483 $\frac{3}{4}$	26	1263 $\frac{3}{4}$
11	535 $\frac{5}{8}$	27	1315 $\frac{5}{8}$
12	581 $\frac{1}{2}$	28	1361 $\frac{1}{2}$
13	633 $\frac{3}{8}$	29	1413 $\frac{3}{8}$
14	681 $\frac{1}{4}$	30	1461 $\frac{1}{4}$
15	731 $\frac{1}{8}$	31	1511 $\frac{1}{8}$
16	78		



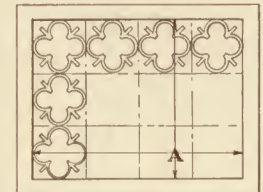
NEWMANCO Cast Grilles

The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

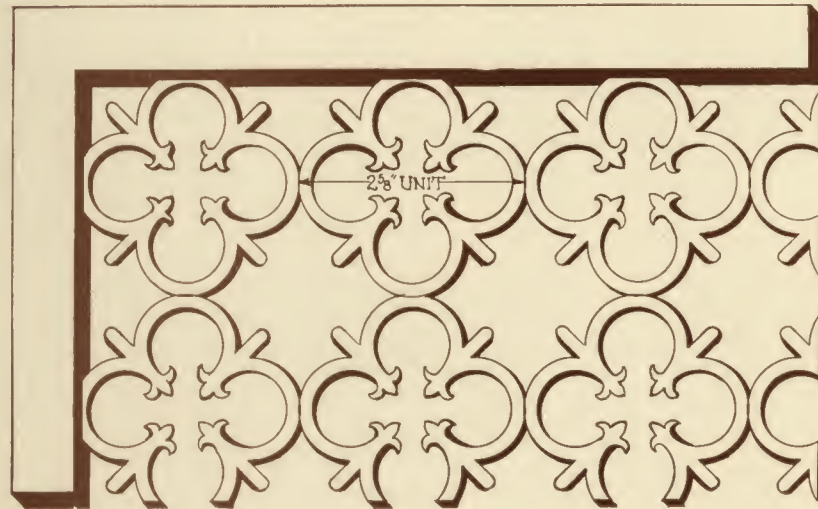


No. 526

No. of Units	A	No. of Units	A	No. of Units	A
1	3 1/2	16	56	31	108 1/2
2	7	17	59 1/2	32	112
3	10 1/2	18	63	33	115 1/2
4	14	19	66 1/2	34	119
5	17 1/2	20	70	35	122 1/2
6	21	21	73 1/2	36	126
7	24 1/2	22	77	37	129 1/2
8	28	23	80 1/2	38	133
9	31 1/2	24	84	39	136 1/2
10	35	25	87 1/2	40	140
11	38 1/2	26	91	41	143 1/2
12	42	27	94 1/2	42	147
13	45 1/2	28	98	43	150 1/2
14	49	29	101 1/2		
15	52 1/2	30	105		

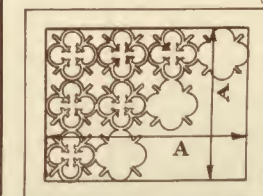


The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

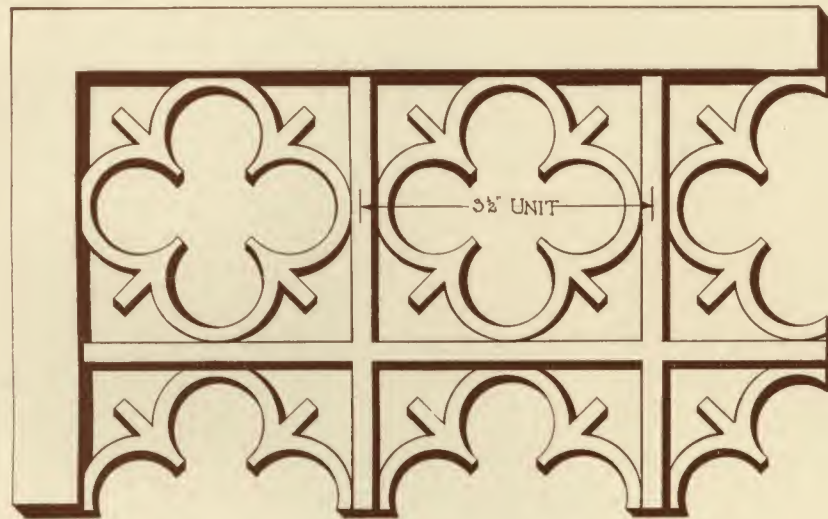


No. 276

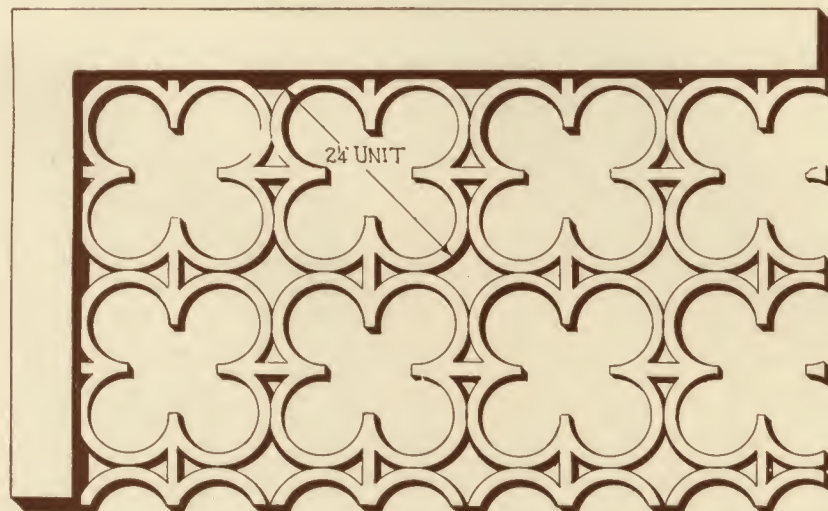
No. of Units	A	No. of Units	A	No. of Units	A
1	25/8	21	55 5/8	41	107 5/8
2	5 1/4	22	57 3/4	42	110 1/4
3	7 1/8	23	60 3/8	43	112 7/8
4	10 1/4	24	63	44	115 1/2
5	13 1/8	25	65 5/8	45	118 5/8
6	15 3/4	26	68 1/4	46	120 3/4
7	18 3/8	27	70 7/8	47	123 3/8
8	21	28	73 1/2	48	126
9	23 5/8	29	76 5/8	49	128 5/8
10	26 1/4	30	78 3/4	50	131 1/4
11	28 7/8	31	81 3/8	51	133 7/8
12	31 1/2	32	84	52	136 1/2
13	34 1/8	33	86 5/8	53	139 1/8
14	36 3/4	34	89 1/4	54	141 3/4
15	39 3/8	35	91 7/8	55	144 3/8
16	42	36	94 1/2	56	147
17	44 5/8	37	97 1/8	57	149 5/8
18	47 1/4	38	99 3/4	58	152 1/4
19	49 7/8	39	102 3/8		
20	52 1/2	40	105		



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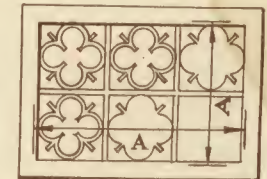
No. 394



No. 594

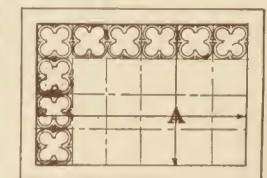
The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A	No. of Units	A	No. of Units	A
1	3 1/2	12	42	23	80 1/2	34	119
2	7	13	45 1/2	24	84	35	122 1/2
3	10 1/2	14	49	25	87 1/2	36	126
4	14	15	52 1/2	26	91	37	129 1/2
5	17 1/2	16	56	27	94 1/2	38	133
6	21	17	59 1/2	28	98	39	136 1/2
7	24 1/2	18	63	29	101 1/2	40	140
8	28	19	66 1/2	30	105	41	143 1/2
9	31 1/2	20	70	31	108 1/2	42	147
10	35	21	73 1/2	32	112	43	150 1/2
11	38 1/2	22	77	33	115 1/2		



The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A	No. of Units	A	No. of Units	A
1	2 1/4	18	40 1/2	35	78 3/4	52	117
2	4 1/2	19	42 3/4	36	81	53	119 1/4
3	6 3/4	20	45	37	83 1/4	54	121 1/2
4	9	21	47 1/4	38	85 1/2	55	123 3/4
5	11 1/4	22	49 1/2	39	87 3/4	56	126
6	13 1/2	23	51 3/4	40	90	57	128 1/4
7	15 3/4	24	54	41	92 1/4	58	130 1/2
8	18	25	56 1/4	42	94 1/2	59	132 3/4
9	20 1/4	26	58 1/2	43	96 3/4	60	135
10	22 1/2	27	60 3/4	44	99	61	137 1/4
11	24 3/4	28	63	45	101 1/4	62	139 1/2
12	27	29	65 1/4	46	103 1/2	63	141 3/4
13	29 1/4	30	67 1/2	47	105 3/4	64	144
14	31 1/2	31	69 3/4	48	108	65	146 1/4
15	33 3/4	32	72	49	110 1/4	66	148 1/2
16	36	33	74 1/4	50	112 1/2	67	150 3/4
17	38 1/4	34	76 1/2	51	114 3/4		



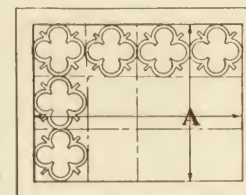
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No. 531

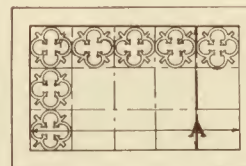
The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A	No. of Units	A
1	3	16	48	31	93
2	6	17	51	32	96
3	9	18	54	33	99
4	12	19	57	34	102
5	15	20	60	35	105
6	18	21	63	36	108
7	21	22	66	37	111
8	24	23	69	38	114
9	27	24	72	39	117
10	30	25	75	40	120
11	33	26	78	41	123
12	36	27	81	42	126
13	39	28	84	43	129
14	42	29	87	44	132
15	45	30	90	45	135



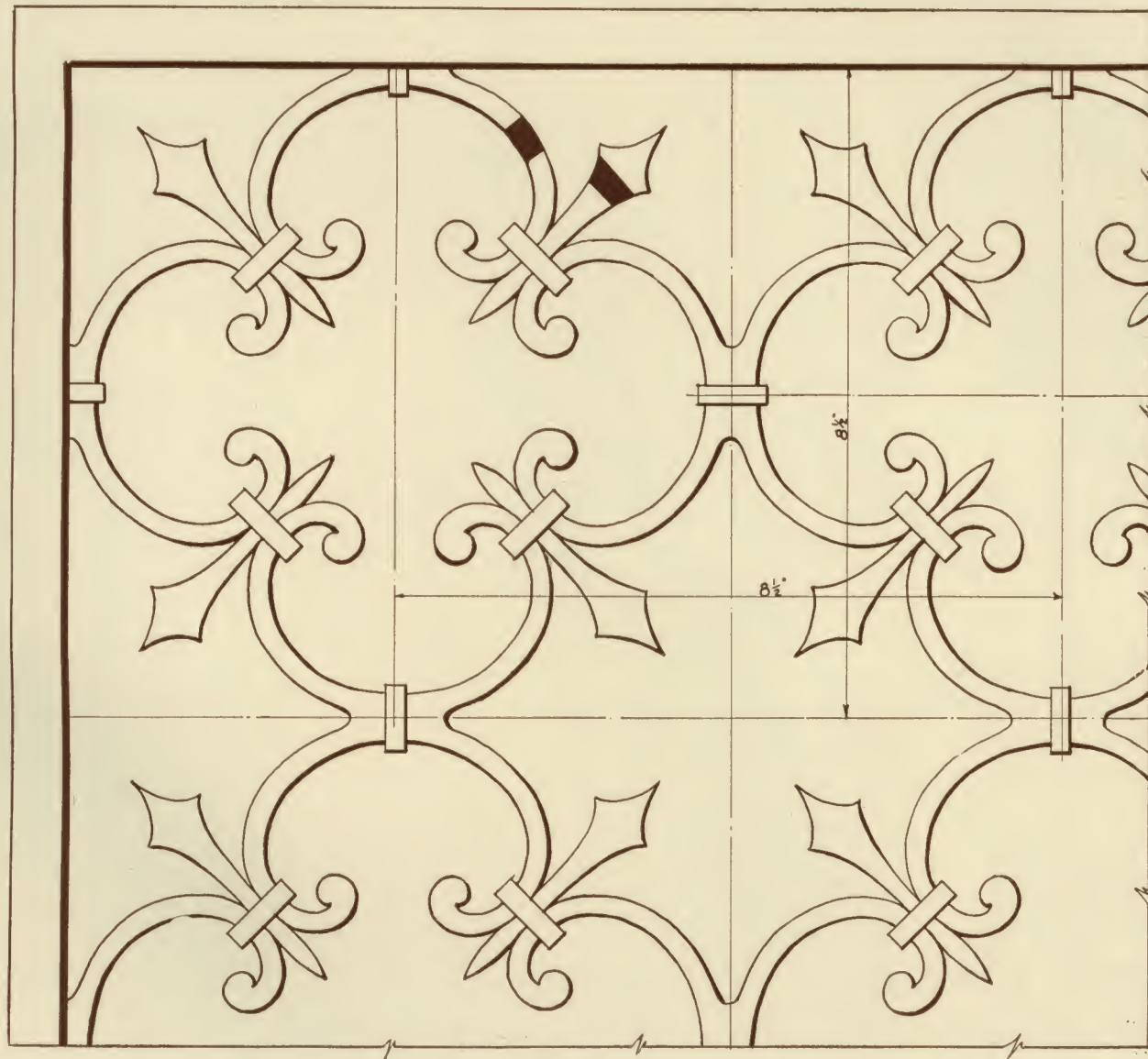
The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A	No. of Units	A
1	2½	21	52½	41	102½
2	5	22	55	42	105
3	7½	23	57½	43	107½
4	10	24	60	44	110
5	12½	25	62½	45	112½
6	15	26	65	46	115
7	17½	27	67½	47	117½
8	20	28	70	48	120
9	22½	29	72½	49	122½
10	25	30	75	50	125
11	27½	31	77½	51	127½
12	30	32	80	52	130
13	32½	33	82½	53	132½
14	35	34	85	54	135
15	37½	35	87½	55	137½
16	40	36	90	56	140
17	42½	37	92½	57	142½
18	45	38	95	58	145
19	47½	39	97½	59	147½
20	50	40	100	60	150



No. 400

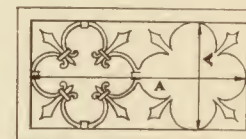
NEWMANCO Cast Grilles



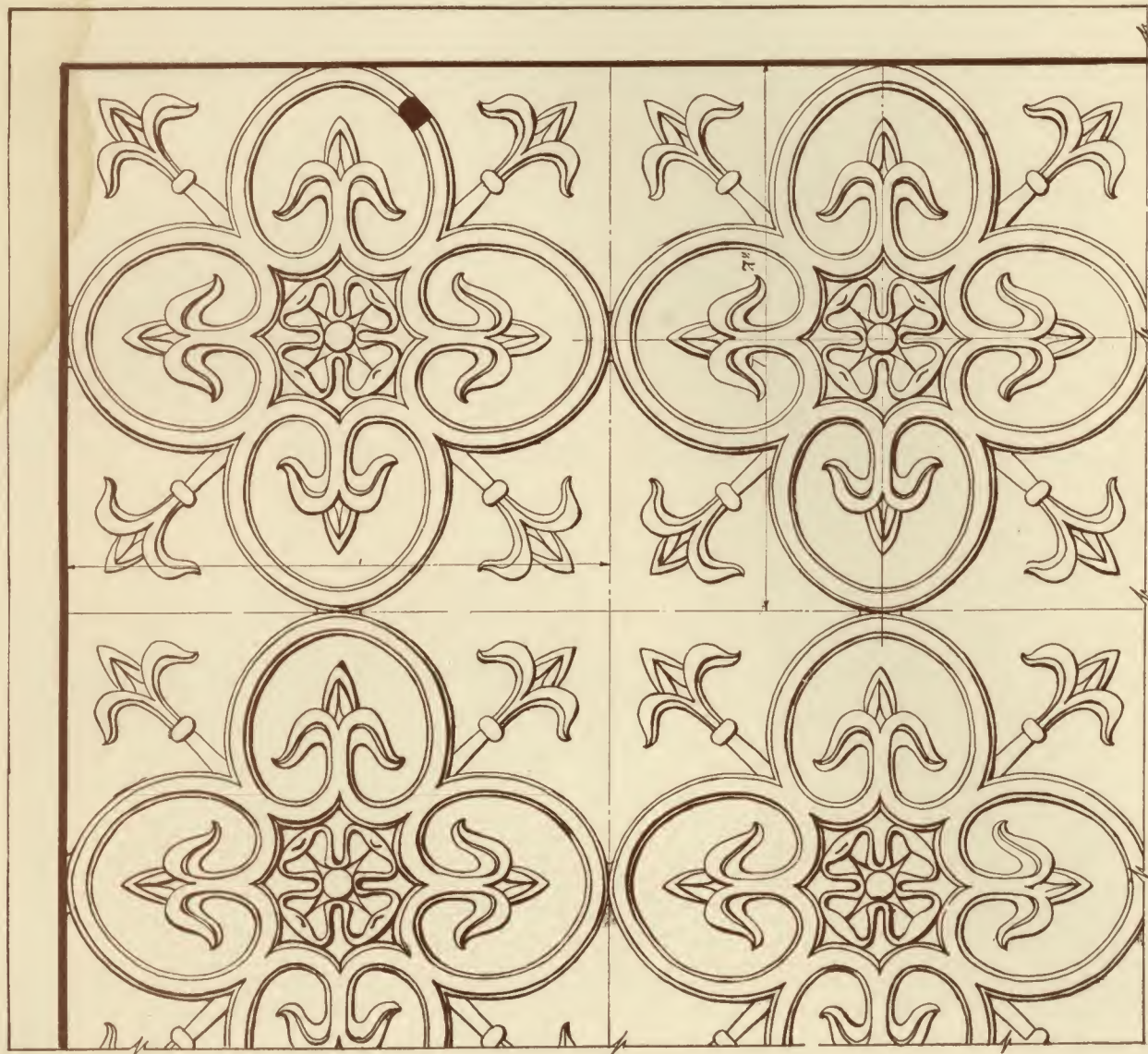
No. 226

The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A
1	8½
2	17
3	25½
4	34
5	42½
6	51
7	59½
8	68
9	76½
10	85
11	93½
12	102
13	110½
14	119
15	127½
16	136
17	144½
18	153

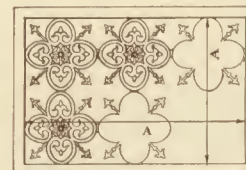


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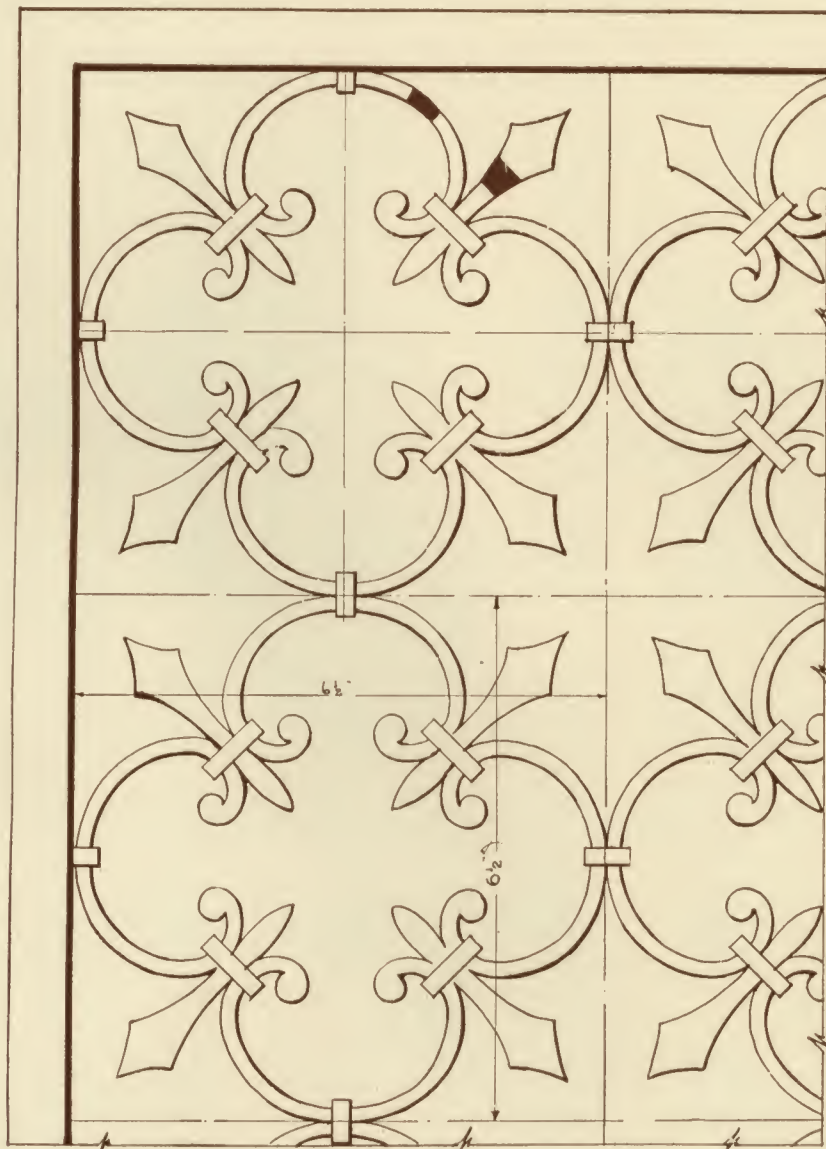
The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A
1	7
2	14
3	21
4	28
5	35
6	42
7	49
8	56
9	63
10	70
11	77
12	84
13	91
14	98
15	105
16	112
17	119
18	126
19	133
20	140
21	147
22	154



No. 244

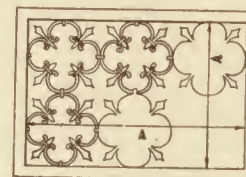
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No. 221

The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A
1	6½	13	84½
2	13	14	91
3	19½	15	97½
4	26	16	104
5	32½	17	110½
6	39	18	117
7	45½	19	123½
8	52	20	130
9	58½	21	136½
10	65	22	143
11	71½	23	149½
12	78	24	156



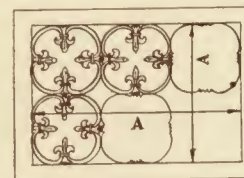
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No. 112

The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A
1	4	20	80
2	8	21	84
3	12	22	88
4	16	23	92
5	20	24	96
6	24	25	100
7	28	26	104
8	32	27	108
9	36	28	112
10	40	29	116
11	44	30	120
12	48	31	124
13	52	32	128
14	56	33	132
15	60	34	136
16	64	35	140
17	68	36	144
18	72	37	148
19	76	38	152



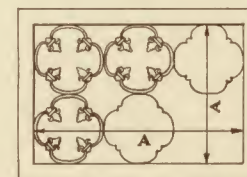
NEWMANCO Cast Grilles



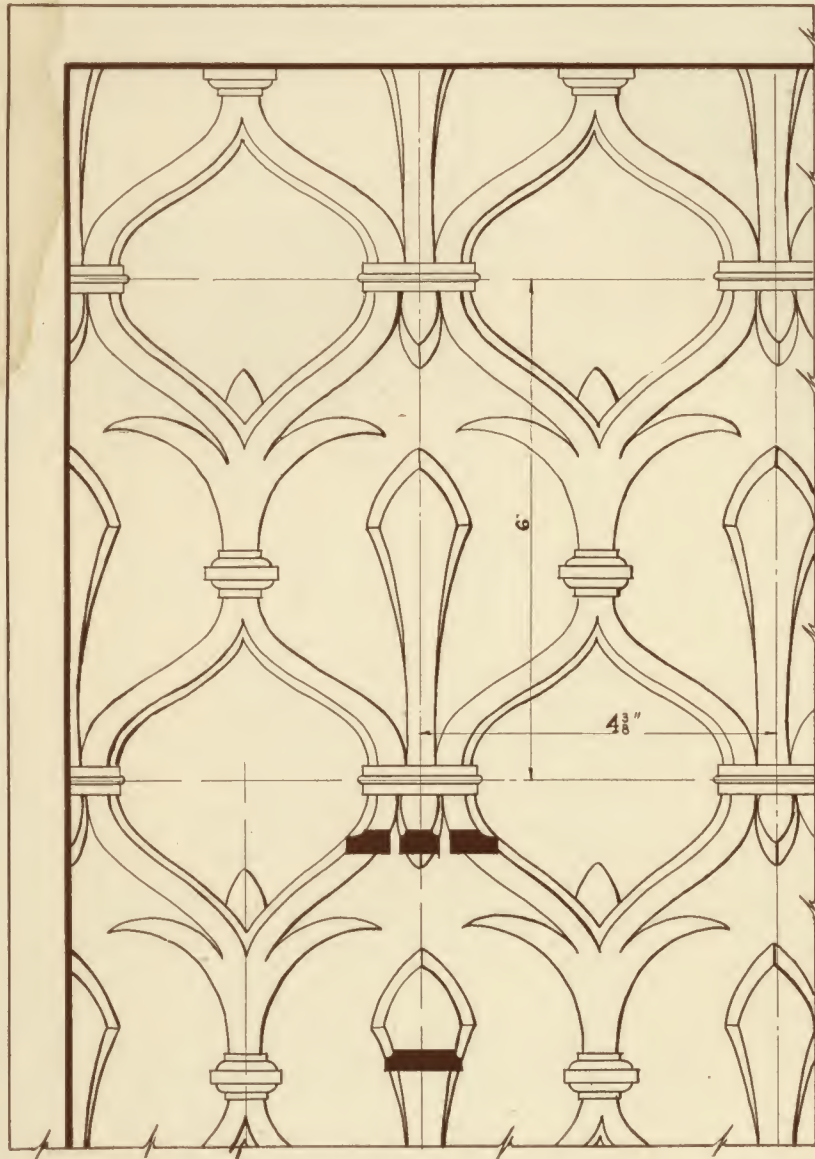
No. 241

The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A
1	4½	18	81
2	9	19	85½
3	13½	20	90
4	18	21	94½
5	22½	22	99
6	27	23	103½
7	31½	24	108
8	36	25	112½
9	40½	26	117
10	45	27	121½
11	49½	28	126
12	54	29	130½
13	58½	30	135
14	63	31	139½
15	67½	32	144
16	72	33	148½
17	76½	34	153



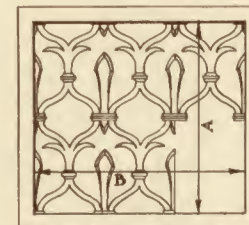
NEWMANCO Cast Grilles



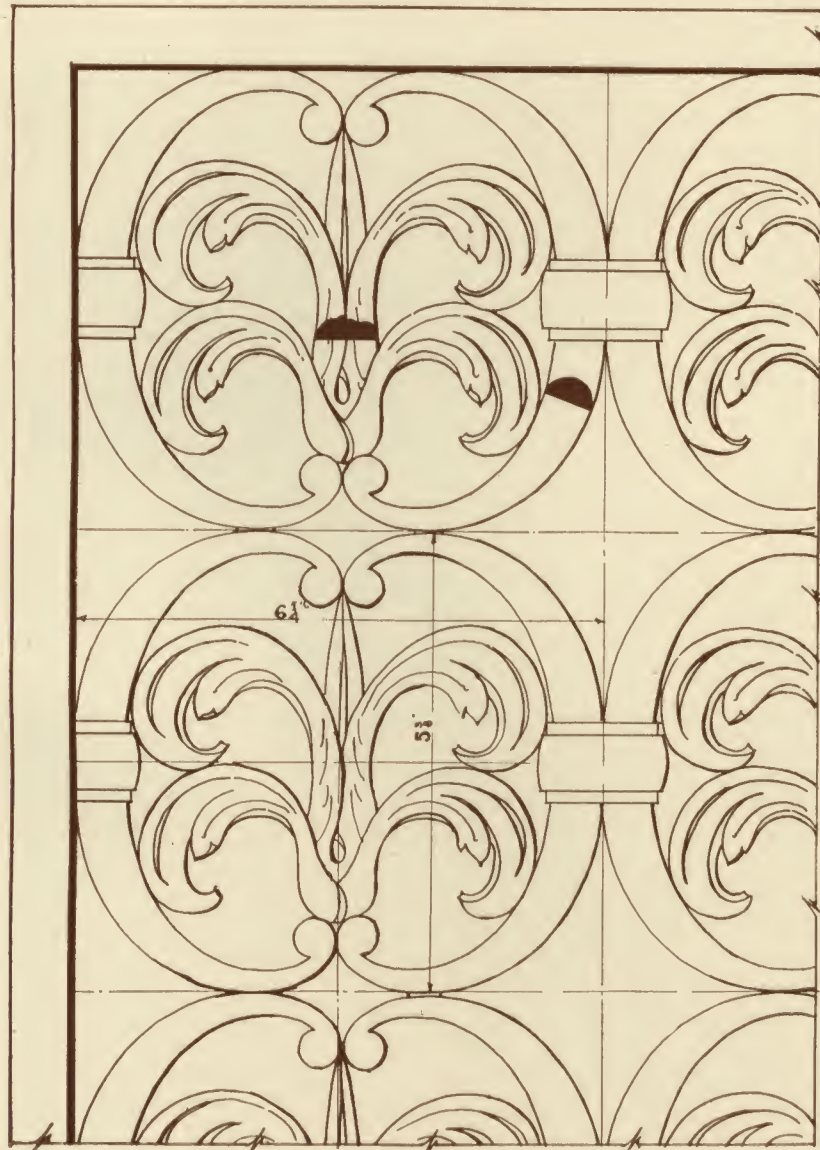
No. 289

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	B	No. of Units	A	B
1	6	4 $\frac{3}{8}$	15	90	65 $\frac{5}{8}$
2	12	8 $\frac{3}{4}$	16	96	70
3	18	13 $\frac{1}{8}$	17	102	74 $\frac{3}{8}$
4	24	17 $\frac{1}{2}$	18	108	78 $\frac{3}{4}$
5	30	21 $\frac{7}{8}$	19	114	83 $\frac{1}{8}$
6	36	26 $\frac{1}{4}$	20	120	87 $\frac{1}{2}$
7	42	30 $\frac{5}{8}$	21	126	91 $\frac{7}{8}$
8	48	35	22	132	96 $\frac{1}{4}$
9	54	39 $\frac{3}{8}$	23	138	100 $\frac{5}{8}$
10	60	43 $\frac{3}{4}$	24	144	105
11	66	48 $\frac{1}{8}$	25	150	109 $\frac{3}{8}$
12	72	52 $\frac{1}{2}$	26		113 $\frac{3}{4}$
13	78	56 $\frac{7}{8}$	27		118 $\frac{1}{8}$
14	84	61 $\frac{1}{4}$	28		122 $\frac{1}{2}$



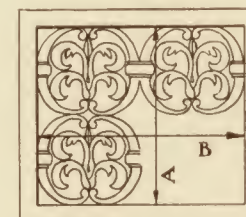
NEWMANCO Cast Grilles



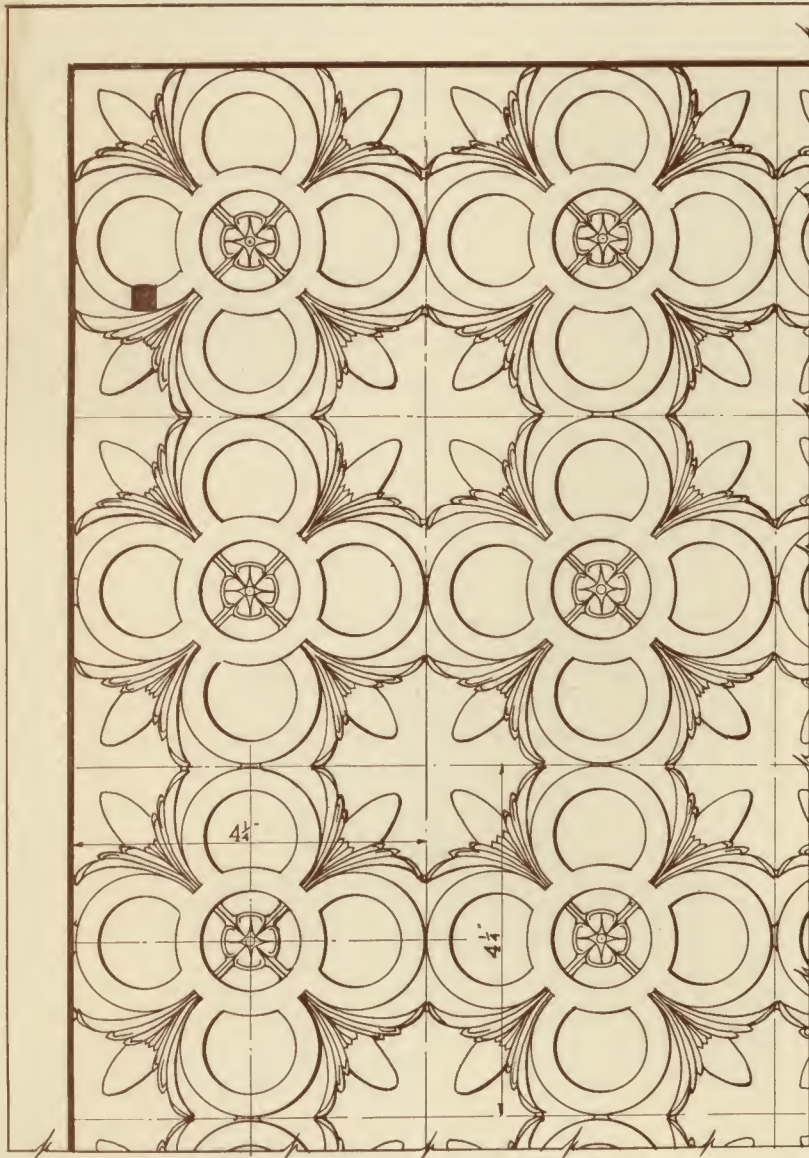
No. 295

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	B	No. of Units	A	B
1	5 $\frac{3}{8}$	6 $\frac{1}{4}$	15	80 $\frac{5}{8}$	93 $\frac{3}{4}$
2	10 $\frac{3}{4}$	12 $\frac{1}{2}$	16	86	100
3	16 $\frac{1}{8}$	18 $\frac{3}{4}$	17	91 $\frac{3}{8}$	106 $\frac{1}{2}$
4	21 $\frac{1}{2}$	25	18	96 $\frac{3}{4}$	112 $\frac{1}{2}$
5	26 $\frac{7}{8}$	31 $\frac{1}{4}$	19	102 $\frac{1}{8}$	118 $\frac{3}{4}$
6	32 $\frac{1}{4}$	37 $\frac{1}{2}$	20	107 $\frac{1}{2}$	125
7	37 $\frac{5}{8}$	43 $\frac{3}{4}$	21	112 $\frac{7}{8}$	131 $\frac{1}{4}$
8	43	50	22	118 $\frac{1}{4}$	137 $\frac{1}{2}$
9	48 $\frac{3}{8}$	56 $\frac{1}{4}$	23	123 $\frac{5}{8}$	143 $\frac{3}{4}$
10	53 $\frac{3}{4}$	62 $\frac{1}{2}$	24	129	150
11	59 $\frac{1}{8}$	68 $\frac{3}{4}$	25	134 $\frac{3}{8}$	
12	64 $\frac{1}{2}$	75	26	139 $\frac{3}{4}$	
13	69 $\frac{7}{8}$	81 $\frac{1}{4}$	27	145 $\frac{1}{8}$	
14	75 $\frac{1}{4}$	87 $\frac{1}{2}$	28	150 $\frac{1}{2}$	



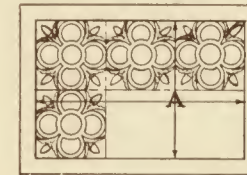
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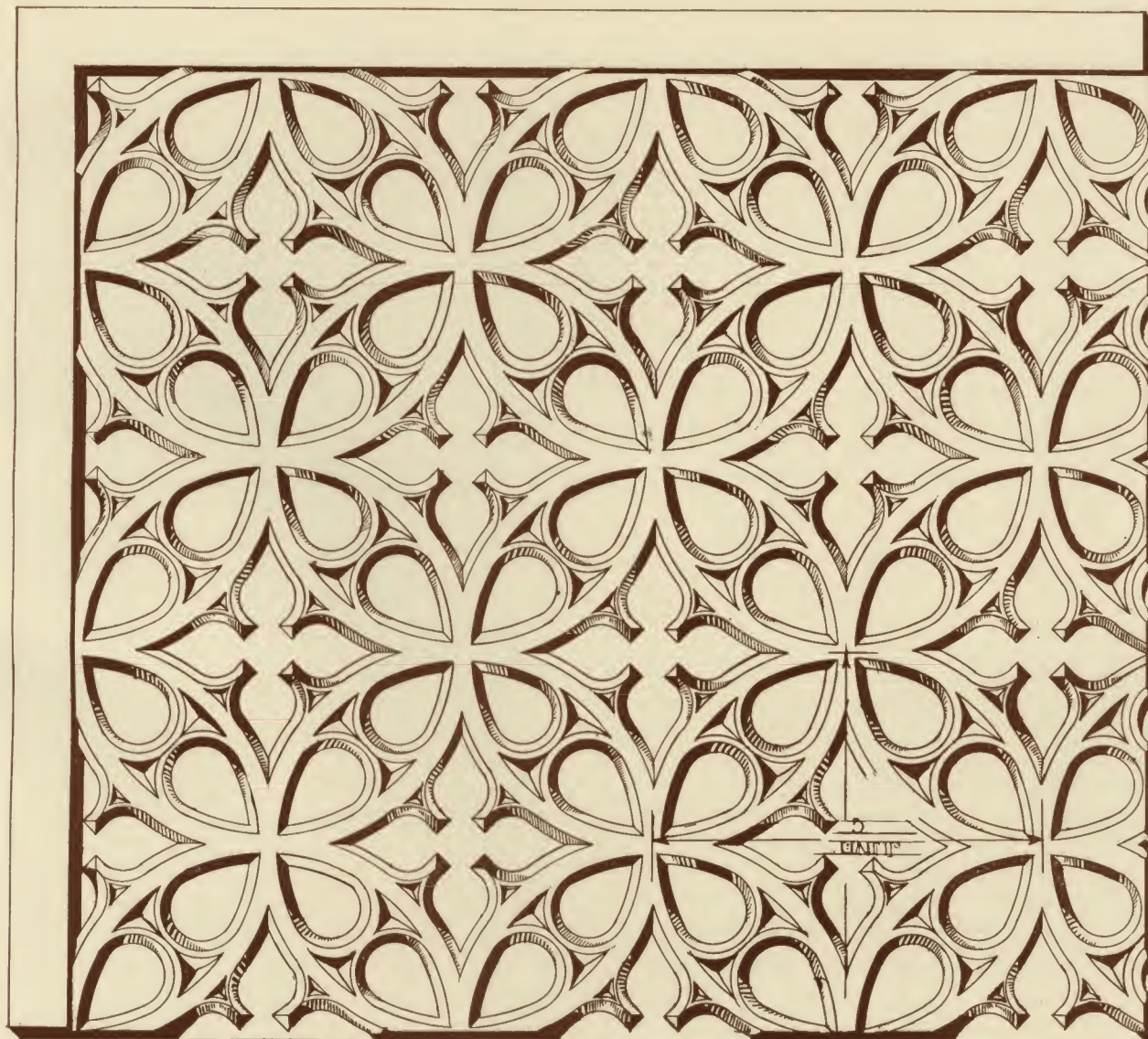
No. 527

The following schedule gives the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A
1	4 $\frac{1}{4}$	19	80 $\frac{3}{4}$
2	8 $\frac{1}{2}$	20	85
3	12 $\frac{3}{4}$	21	89 $\frac{1}{4}$
4	17	22	93 $\frac{1}{2}$
5	21 $\frac{1}{4}$	23	97 $\frac{3}{4}$
6	25 $\frac{1}{2}$	24	102
7	29 $\frac{3}{4}$	25	106 $\frac{1}{4}$
8	34	26	110 $\frac{1}{2}$
9	38 $\frac{1}{4}$	27	114 $\frac{3}{4}$
10	42 $\frac{1}{2}$	28	119
11	46 $\frac{3}{4}$	29	123 $\frac{1}{4}$
12	51	30	127 $\frac{1}{2}$
13	55 $\frac{1}{4}$	31	131 $\frac{3}{4}$
14	59 $\frac{1}{2}$	32	136
15	63 $\frac{3}{4}$	33	140 $\frac{1}{4}$
16	68	34	144 $\frac{1}{2}$
17	72 $\frac{1}{4}$	35	148 $\frac{3}{4}$
18	76 $\frac{1}{2}$	36	153



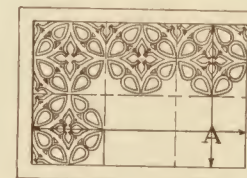
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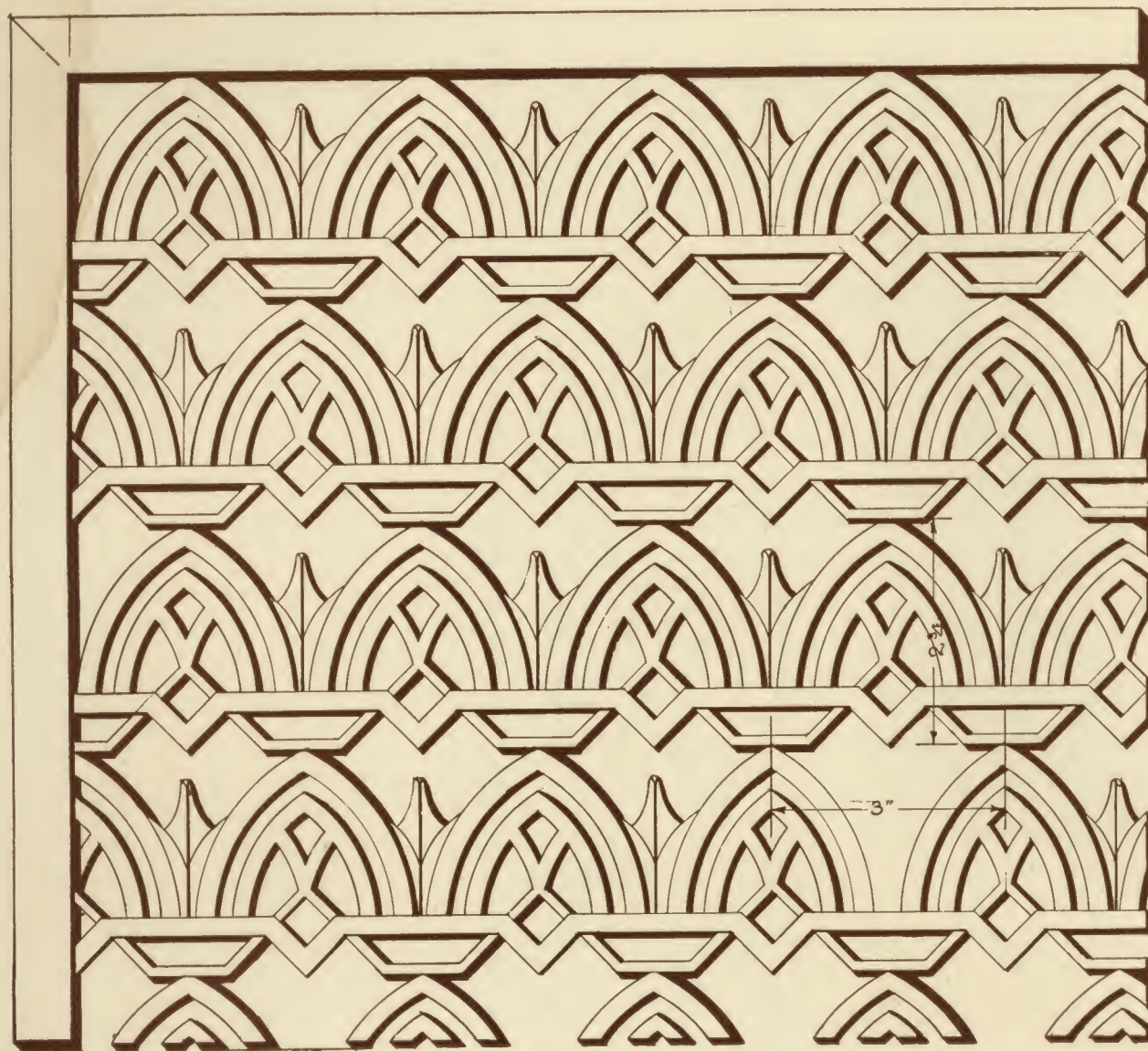
No. 609

The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	Units	A
1	5	16	80
2	10	17	85
3	15	18	90
4	20	19	95
5	25	20	100
6	30	21	105
7	35	22	110
8	40	23	115
9	45	24	120
10	50	25	125
11	55	26	130
12	60	27	135
13	65	28	140
14	70	29	145
15	75	30	150



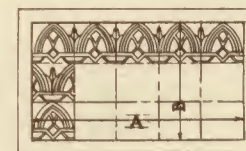
NEWMANCO Cast Grilles



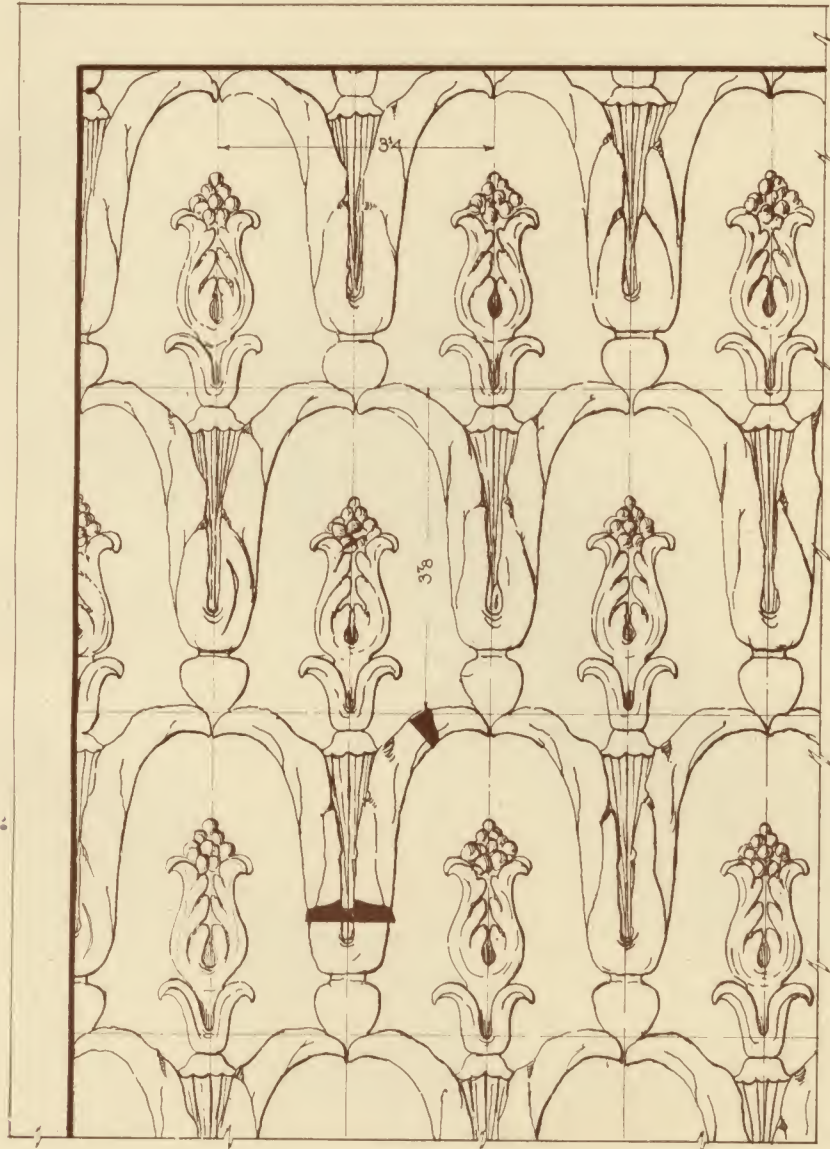
No. 610

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B
1	3	2 $\frac{3}{4}$	29	87	79 $\frac{3}{4}$
2	6	5 $\frac{1}{2}$	30	90	82 $\frac{1}{2}$
3	9	8 $\frac{1}{4}$	31	93	85 $\frac{1}{4}$
4	12	11	32	96	88
5	15	13 $\frac{3}{4}$	33	99	90 $\frac{3}{4}$
6	18	16 $\frac{1}{2}$	34	102	93 $\frac{1}{2}$
7	21	19 $\frac{1}{4}$	35	105	96 $\frac{1}{4}$
8	24	22	36	108	99
9	27	24 $\frac{3}{4}$	37	111	101 $\frac{3}{4}$
10	30	27 $\frac{1}{2}$	38	114	104 $\frac{1}{2}$
11	33	30 $\frac{1}{4}$	39	117	107 $\frac{1}{4}$
12	36	33	40	120	110
13	39	35 $\frac{3}{4}$	41	123	112 $\frac{3}{4}$
14	42	38 $\frac{1}{2}$	42	126	115 $\frac{1}{2}$
15	45	41 $\frac{1}{4}$	43	129	118 $\frac{1}{4}$
16	48	44	44	132	121
17	51	46 $\frac{3}{4}$	45	135	123 $\frac{3}{4}$
18	54	49 $\frac{1}{2}$	46	138	126 $\frac{1}{2}$
19	57	52 $\frac{1}{4}$	47	141	129 $\frac{1}{4}$
20	60	55	48	144	132
21	63	57 $\frac{3}{4}$	49	147	134 $\frac{3}{4}$
22	66	60 $\frac{1}{2}$	50	150	137 $\frac{1}{2}$
23	69	63 $\frac{1}{4}$	51		140 $\frac{1}{4}$
24	72	66	52		143
25	75	68 $\frac{3}{4}$	53		145 $\frac{3}{4}$
26	78	71 $\frac{1}{2}$	54		148 $\frac{1}{2}$
27	81	74 $\frac{1}{4}$	55		151 $\frac{1}{4}$
28	84	77			



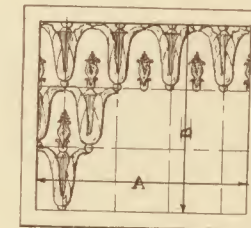
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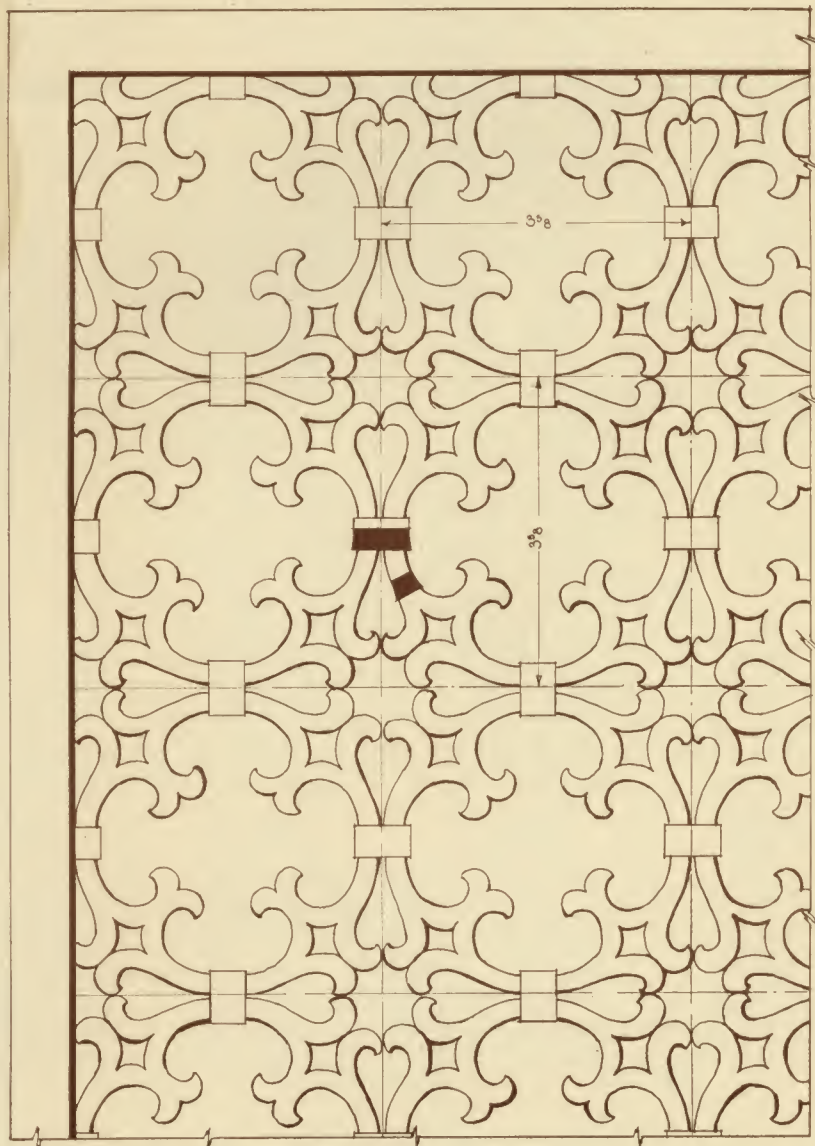
No. 606

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	A	B
1	3 3/4	3 7/8	17	55 1/4	65 7/8	33	107 1/4	127 7/8
2	6 1/2	7 3/4	18	58 1/2	69 3/4	34	110 1/2	131 3/4
3	9 3/4	11 5/8	19	61 3/4	73 5/8	35	113 3/4	135 5/8
4	13	15 1/2	20	65	77 1/2	36	117	139 1/2
5	16 1/4	19 3/8	21	68 1/4	81 3/8	37	120 1/4	143 3/8
6	19 1/2	23 1/4	22	71 1/2	85 1/4	38	123 1/2	147 1/4
7	22 3/4	27 1/8	23	74 3/4	89 1/8	39	126 3/4	151 1/8
8	26	31	24	78	93	40	130	
9	29 1/4	34 7/8	25	81 1/4	96 7/8	41	133 1/4	
10	32 1/2	38 3/4	26	84 1/2	100 3/4	42	136 1/2	
11	35 3/4	42 5/8	27	87 3/4	104 5/8	43	139 3/4	
12	39	46 1/2	28	91	108 1/2	44	143	
13	42 1/4	50 3/8	29	94 1/4	112 3/8	45	146 1/4	
14	45 1/2	54 1/4	30	97 1/2	116 1/4	46	149 1/2	
15	48 3/4	58 1/8	31	100 3/4	120 1/8	47	152 3/4	
16	52	62	32	104	124			



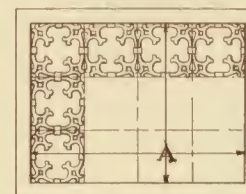
NEWMANCO Cast Grilles



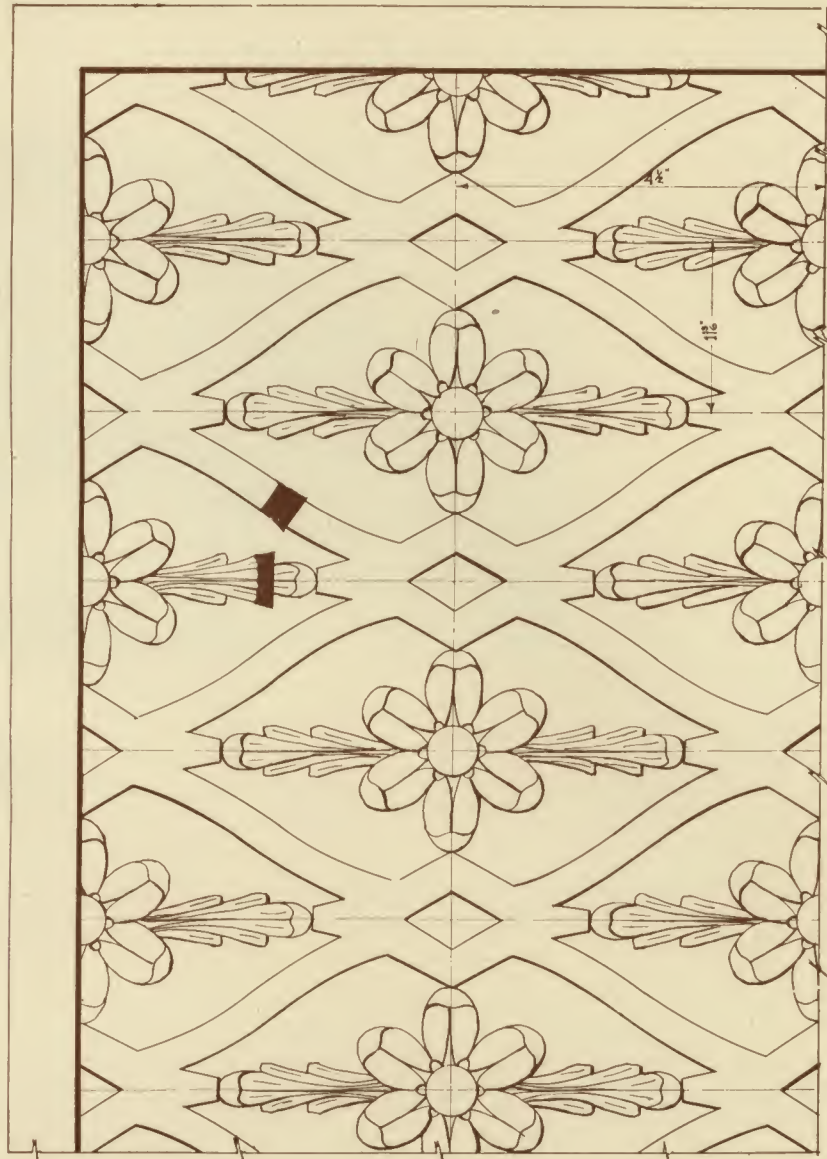
No. 607

The schedule given below shows the inside border dimension *A*. To determine the over all size, add twice the width of the border (or margin) desired.

No. of Units	A	No. of Units	A
1	35 $\frac{7}{8}$	22	79 $\frac{3}{4}$
2	7 $\frac{1}{4}$	23	83 $\frac{3}{8}$
3	10 $\frac{7}{8}$	24	87
4	14 $\frac{1}{2}$	25	90 $\frac{5}{8}$
5	18 $\frac{1}{8}$	26	94 $\frac{1}{4}$
6	21 $\frac{3}{4}$	27	97 $\frac{7}{8}$
7	25 $\frac{3}{8}$	28	101 $\frac{1}{2}$
8	29	29	105 $\frac{1}{8}$
9	32 $\frac{5}{8}$	30	108 $\frac{3}{4}$
10	36 $\frac{1}{4}$	31	112 $\frac{3}{8}$
11	39 $\frac{7}{8}$	32	116
12	43 $\frac{1}{2}$	33	119 $\frac{5}{8}$
13	47 $\frac{1}{8}$	34	123 $\frac{1}{4}$
14	50 $\frac{3}{4}$	35	126 $\frac{7}{8}$
15	54 $\frac{3}{8}$	36	130 $\frac{1}{2}$
16	58	37	134 $\frac{1}{8}$
17	61 $\frac{5}{8}$	38	137 $\frac{3}{4}$
18	65 $\frac{1}{4}$	39	141 $\frac{3}{8}$
19	68 $\frac{7}{8}$	40	145
20	72 $\frac{1}{2}$	41	148 $\frac{5}{8}$
21	76 $\frac{1}{8}$	42	152 $\frac{1}{4}$



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No. 409

The following schedule gives the inside border dimension *A-B*. To determine the over all size, add twice the width of the border (or margin) desired.

Units	A	B	Units	A	B	Units	B
1	4 1/2	1 1/8	29	130 1/2	52 1/8	57	103 1/8
2	9	3 5/8	30	135	54 3/8	58	105 1/8
3	13 1/2	5 7/8	31	139 1/2	56 7/8	59	106 1/8
4	18	7 3/4	32	144	58	60	108 3/4
5	22 1/2	9 1/8	33	148 1/2	59 1/8	61	110 1/8
6	27	10 7/8	34	153	61 5/8	62	112 3/4
7	31 1/2	12 1/8	35		63 3/8	63	114 1/8
8	36	14 1/4	36		65 1/4	64	116
9	40 1/2	16 1/8	37		67 1/8	65	117 1/8
10	45	18 3/8	38		68 7/8	66	119 3/8
11	49 1/2	19 1/8	39		70 1/8	67	121 1/8
12	54	21 3/4	40		72 1/2	68	123 1/4
13	58 1/2	23 1/8	41		74 1/8	69	125 1/8
14	63	25 3/8	42		76 3/8	70	126 3/8
15	67 1/2	27 1/8	43		77 1/8	71	128 1/8
16	72	29	44		79 3/4	72	130 1/2
17	76 1/2	30 1/8	45		81 1/8	73	132 1/8
18	81	32 3/8	46		83 3/8	74	134 1/8
19	85 1/2	34 1/8	47		85 1/8	75	135 1/8
20	90	36 1/4	48		87	76	137 3/4
21	94 1/2	38 1/8	49		88 1/8	77	139 1/8
22	99	39 7/8	50		90 5/8	78	141 3/8
23	103 1/2	41 1/8	51		92 7/8	79	143 1/8
24	108	43 1/2	52		94 1/4	80	145
25	112 1/2	45 1/8	53		96 1/8	81	146 1/8
26	117	47 3/8	54		98 7/8	82	148 3/8
27	121 1/2	48 1/8	55		99 1/8	83	150 1/8
28	126	50 3/4	56		101 1/2		



NEWMAN PRODUCTS

Everything of brass, bronze and the other non-ferreous metals,
from a threshold to a \$100,000.00 complete installation.



OUR MACHINE SHOP

Here we shape the spindles for our ornamental grilles and wickets, and file the less elaborate cast and perforated grilles. In all we employ 330 skilled craftsmen, and in our own huge foundry and shops are prepared to turn out unlimited quantities of grilles and other ornamental metal work "equal to the best."

Balconies	Letters
Balustrades	Lighting Fixtures
BANK FIXTURES	Mausoleum Work
Brackets	Mouldings
Bulletin Boards	Nameplates
Cafeteria Fixtures	Newels
Check Desks	Nosings
Cornices	Ornaments
COUNTER	Pilasters
SCREENS	Pool Stairs
Crestings	RAILINGS
Directories	Rope Rails
DOORS	Saddles
Door Bars	Signs
Door Guards	Sills
Elevator Enclosures	Slide Poles
Entrances	Standards
Fittings	STOREFRONTS
Fountains	TABLETS
Gates	Theatre Fixtures
GRILLES	Ticket Booths
Kick Plates	Thresholds
Ladders	Treads
Lamp Standards	Wickets
Lavatory Hardware	WINDOWS



OUR GRILLE DEPARTMENT

A corner of this department, and just a few of our expert hand-chasers. We have here 47 men whose skill is not learned in schools, but is the product of years and years of intensive training and experience. These artisans form our grilles with conscientious care and fidelity to minute details, which is why architects term our workmanship "equal to the best."

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The Newman Manufacturing Company

CINCINNATI, OHIO

REPRESENTATIVES IN 77 CITIES AND TOWNS

